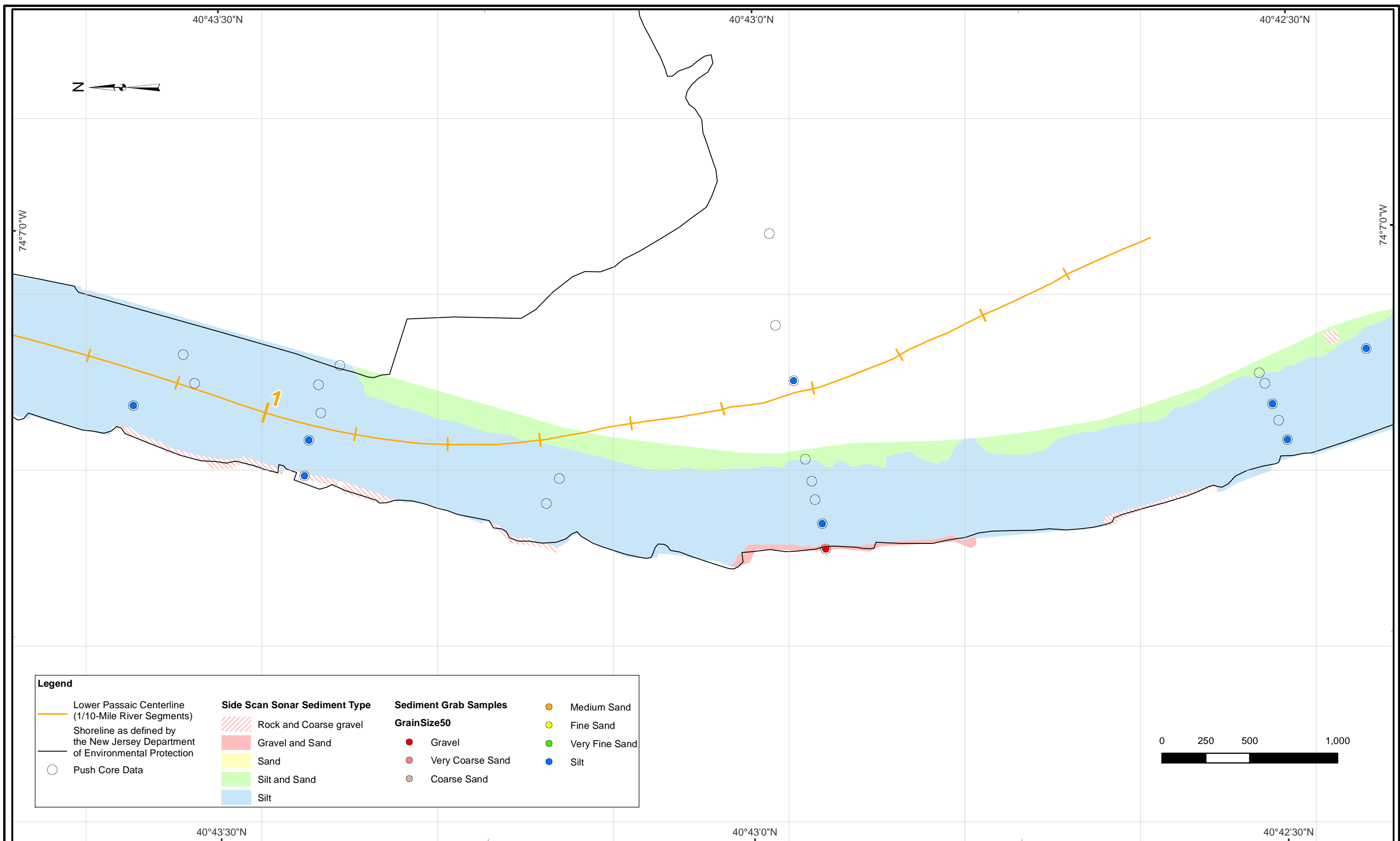


Sediment Sample Class by River Mile

Lower Passaic River Restoration Project

Figure 11-1

September 2008

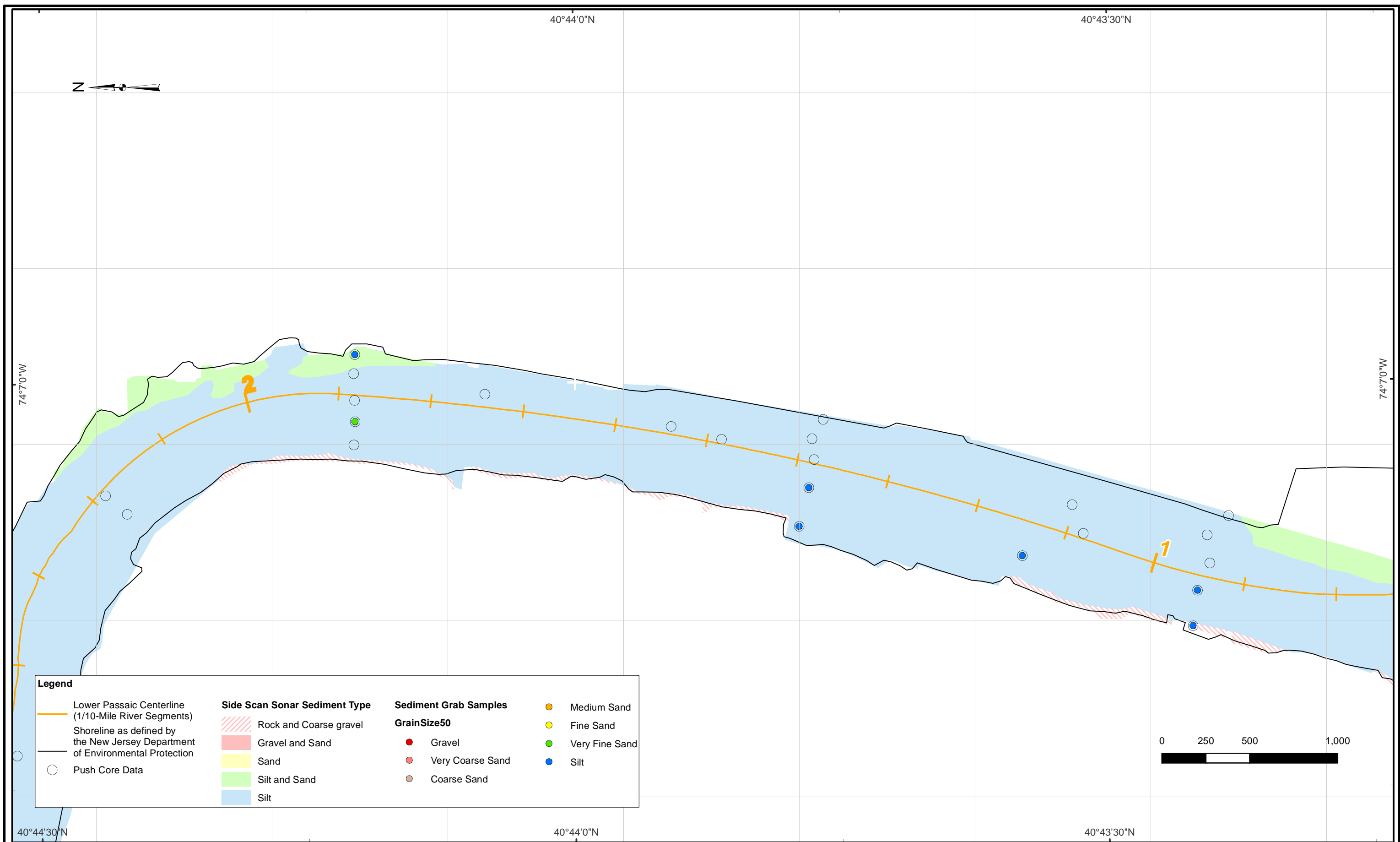


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2a

September 2008



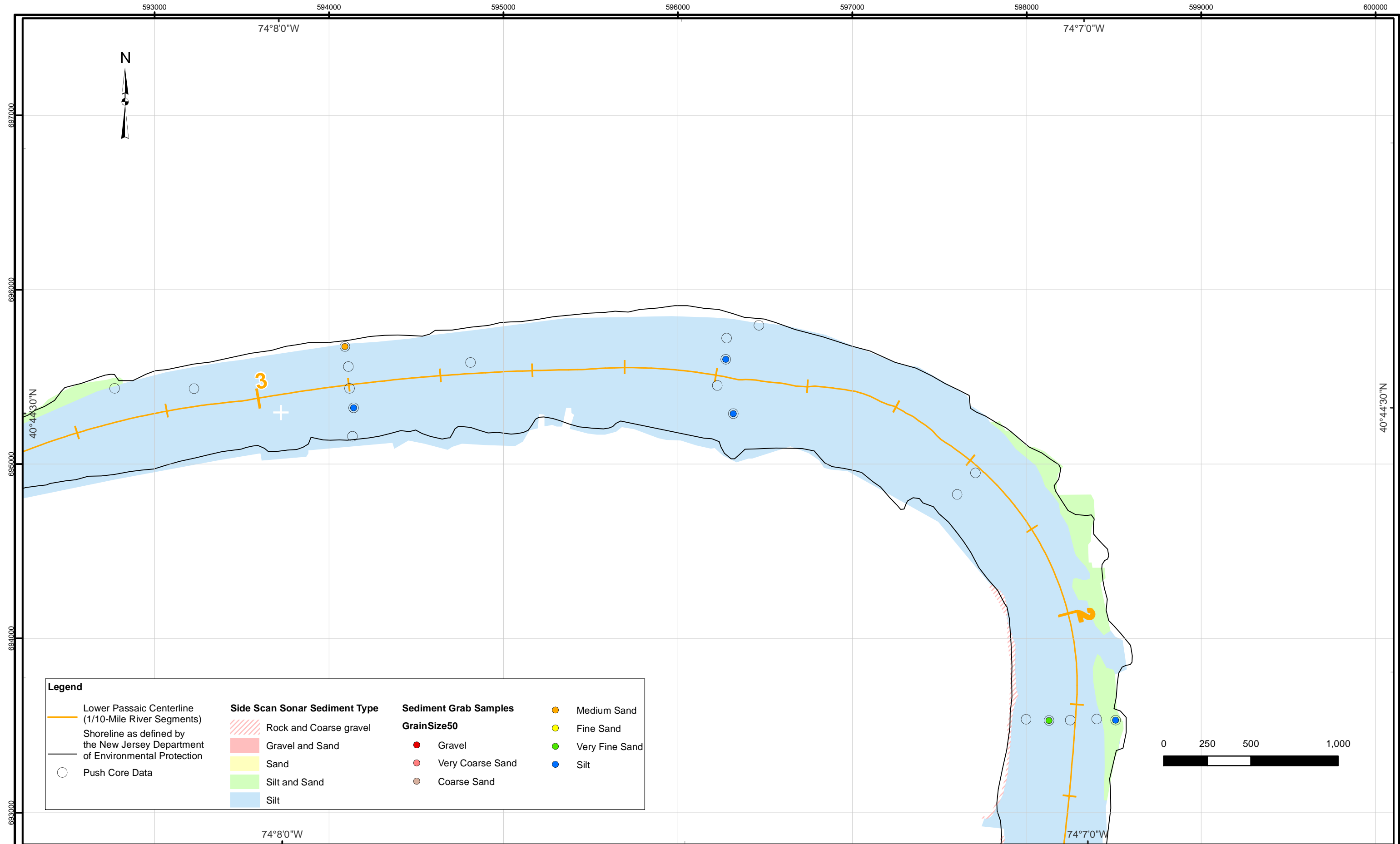


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2b

September 2008

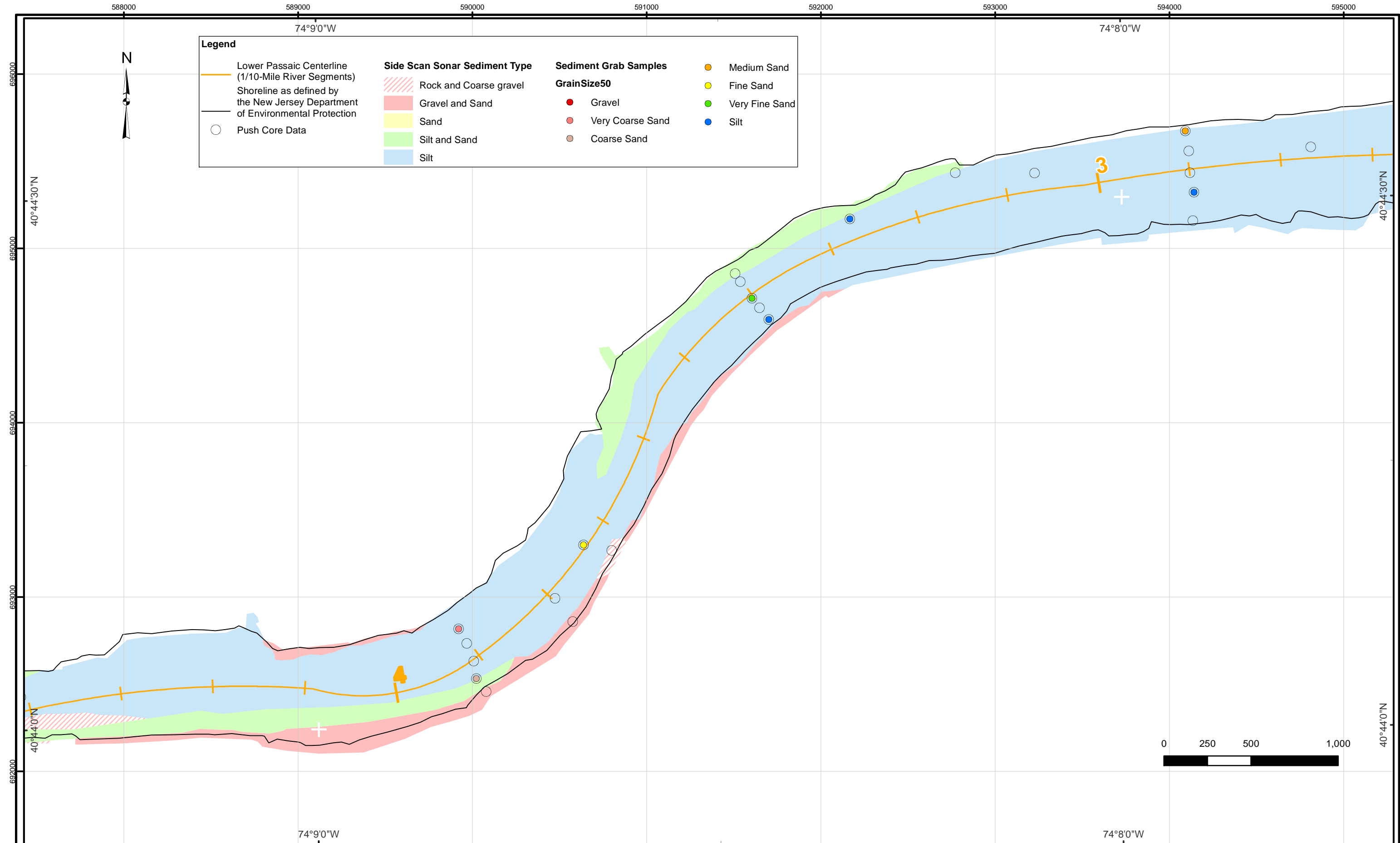




Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2c

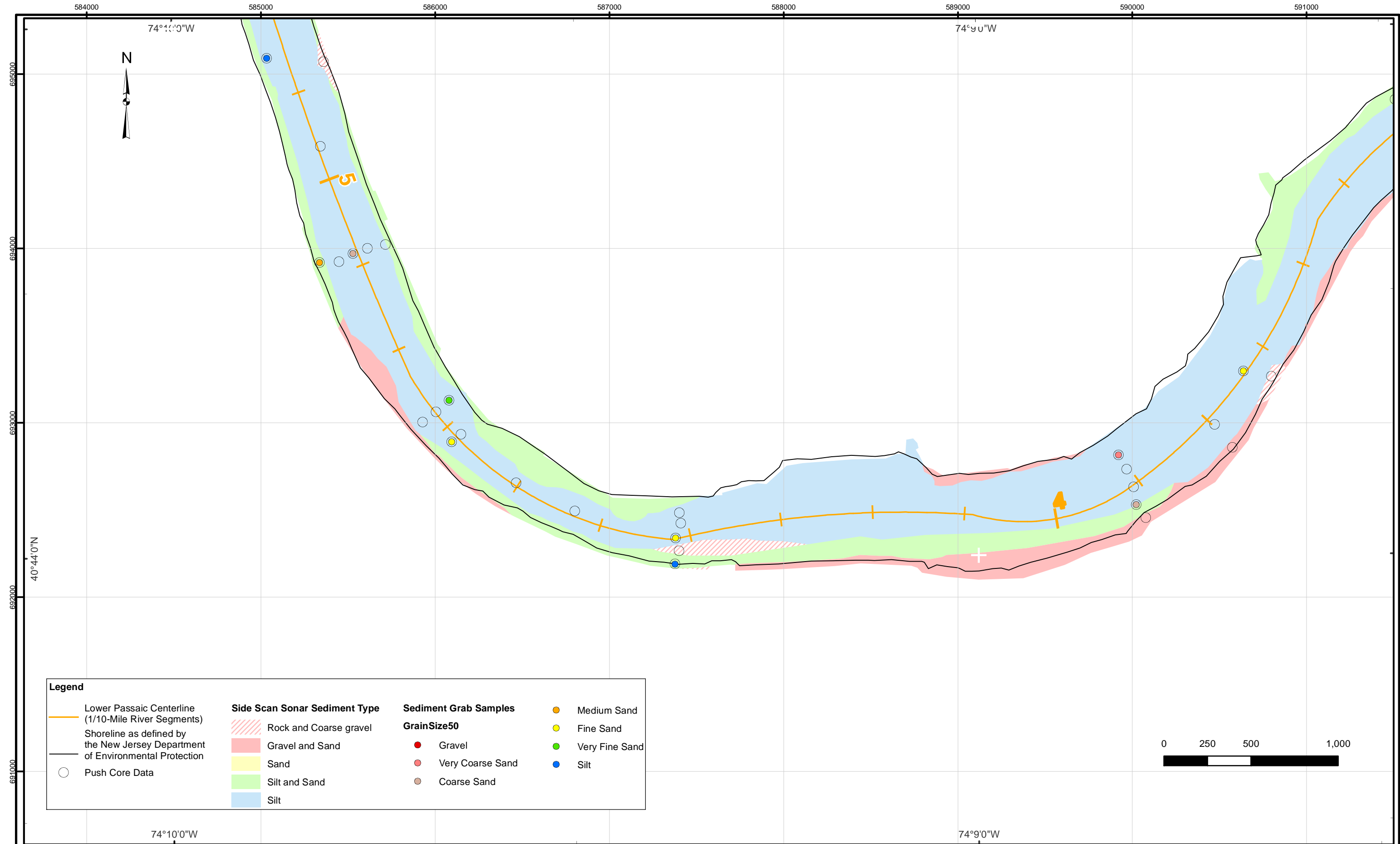
September 2008



Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2d

September 2008

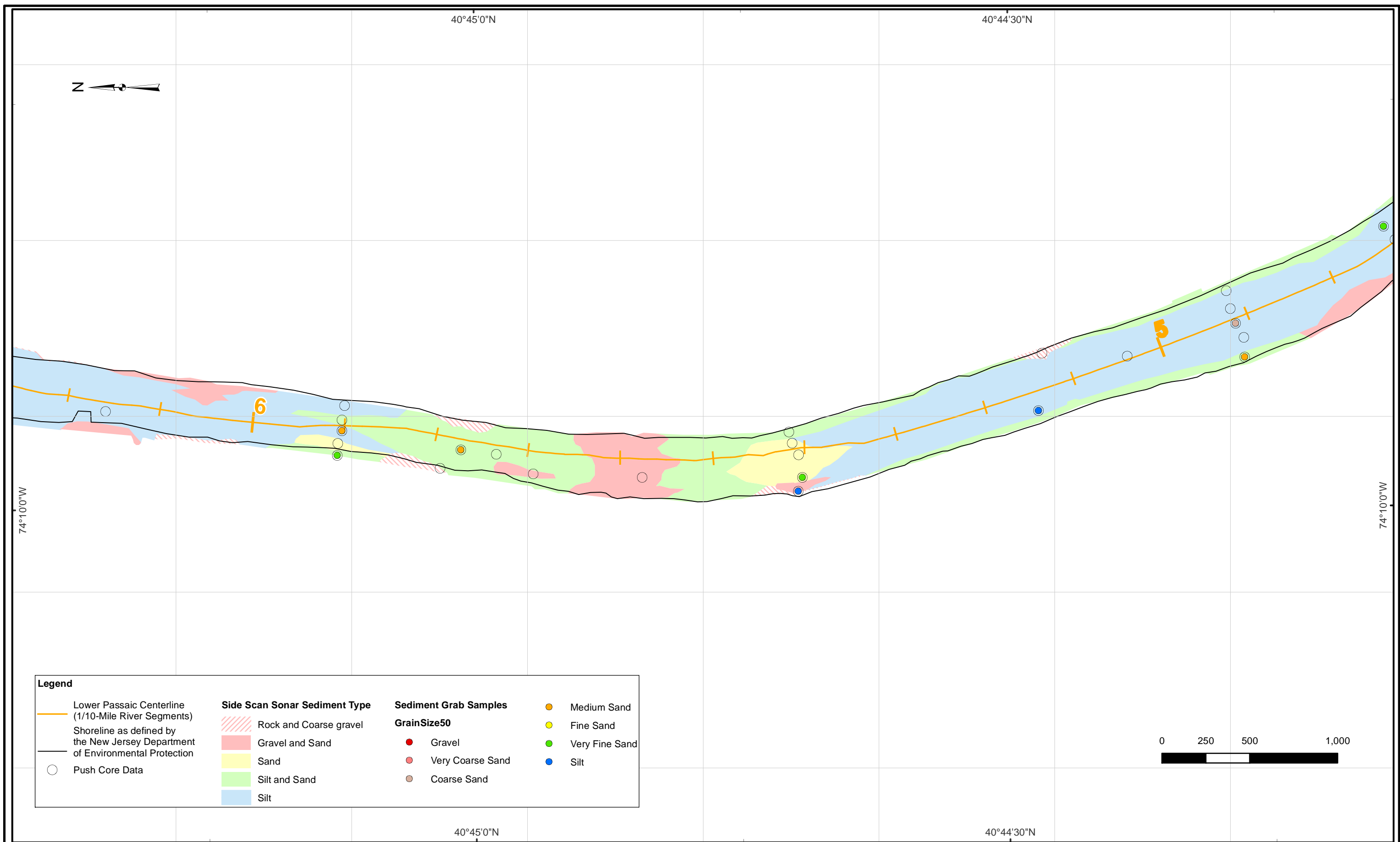


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2e

September 2008



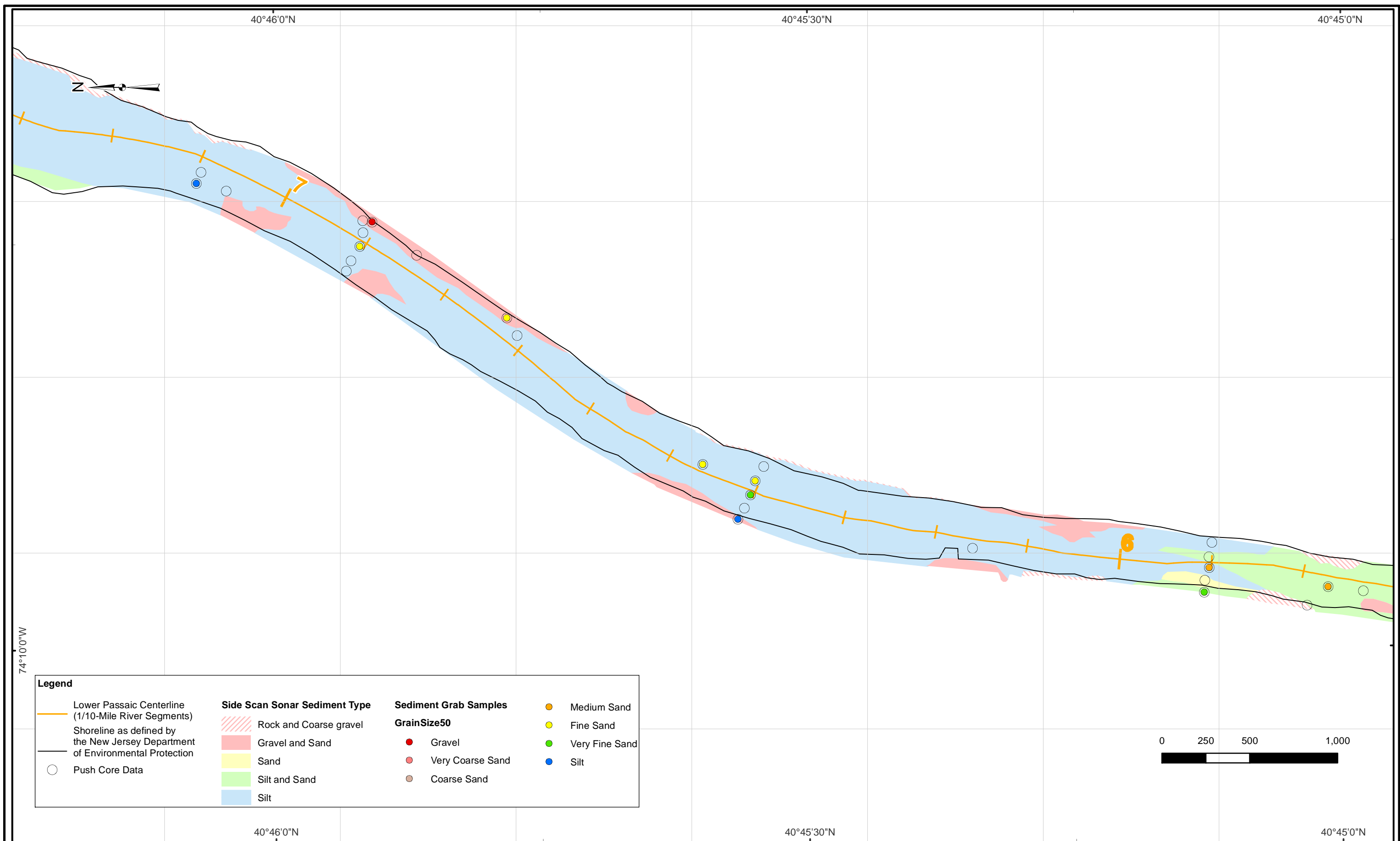


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2f

September 2008



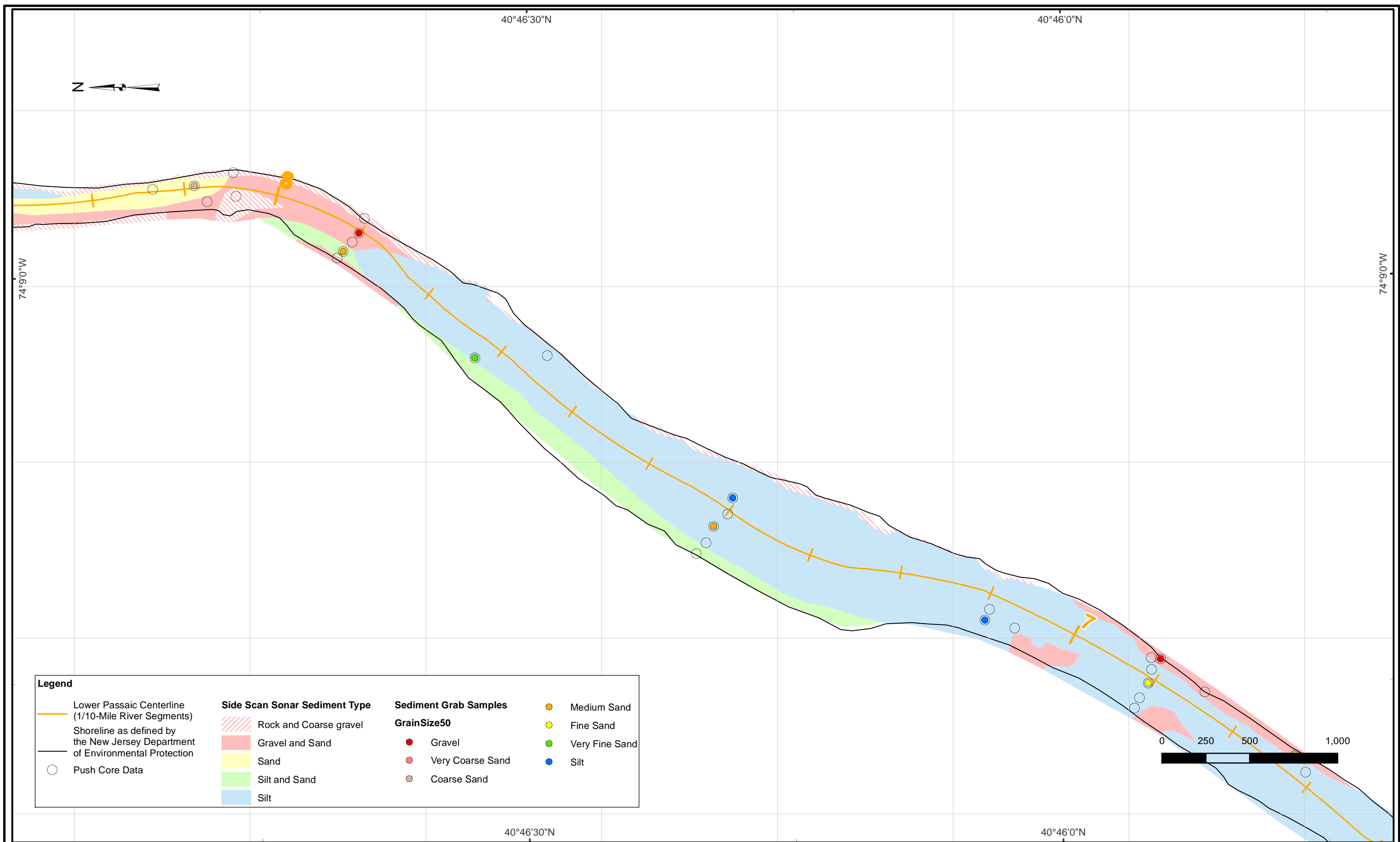


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2g

September 2008



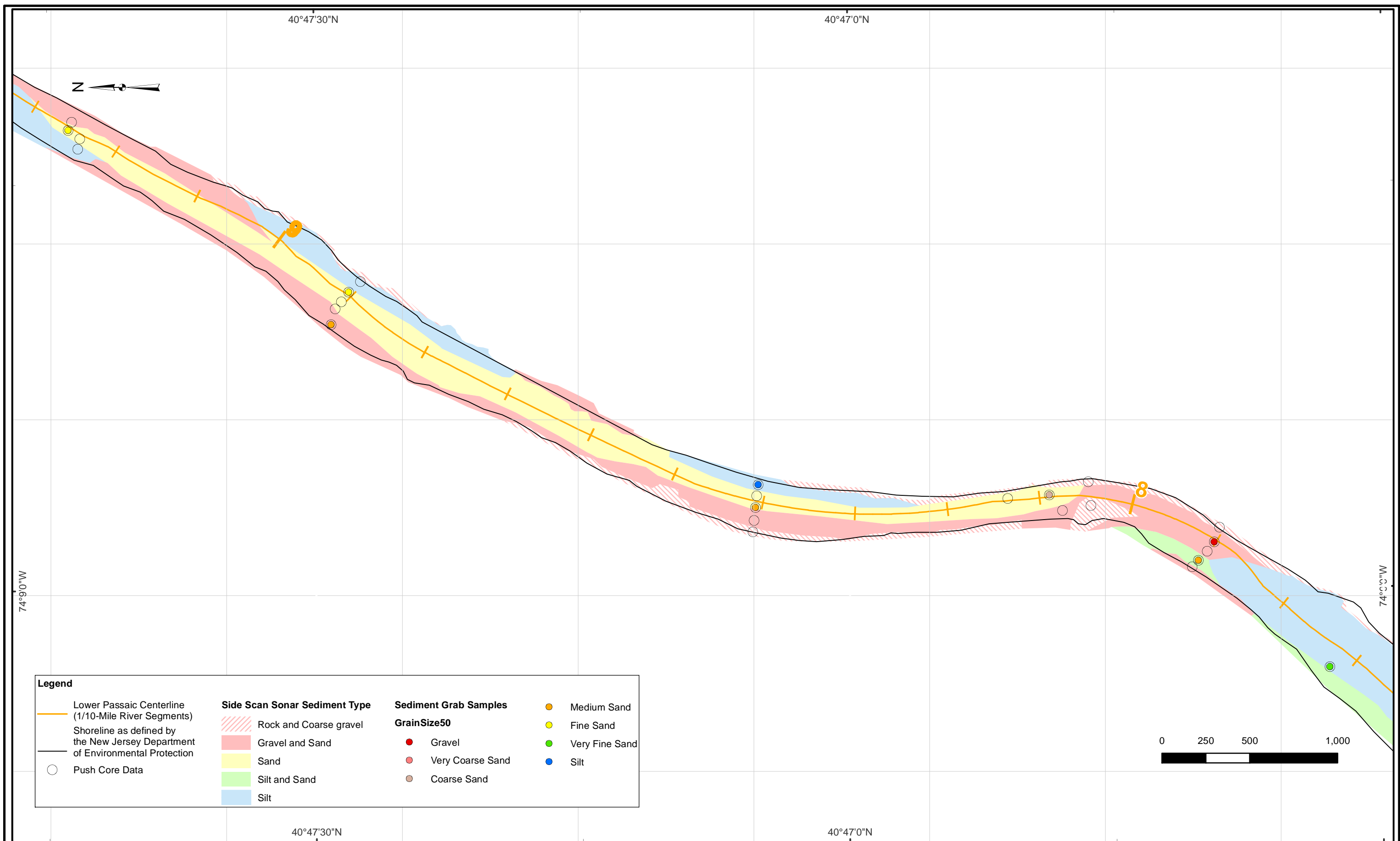


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project



Figure 11-2h

September 2008

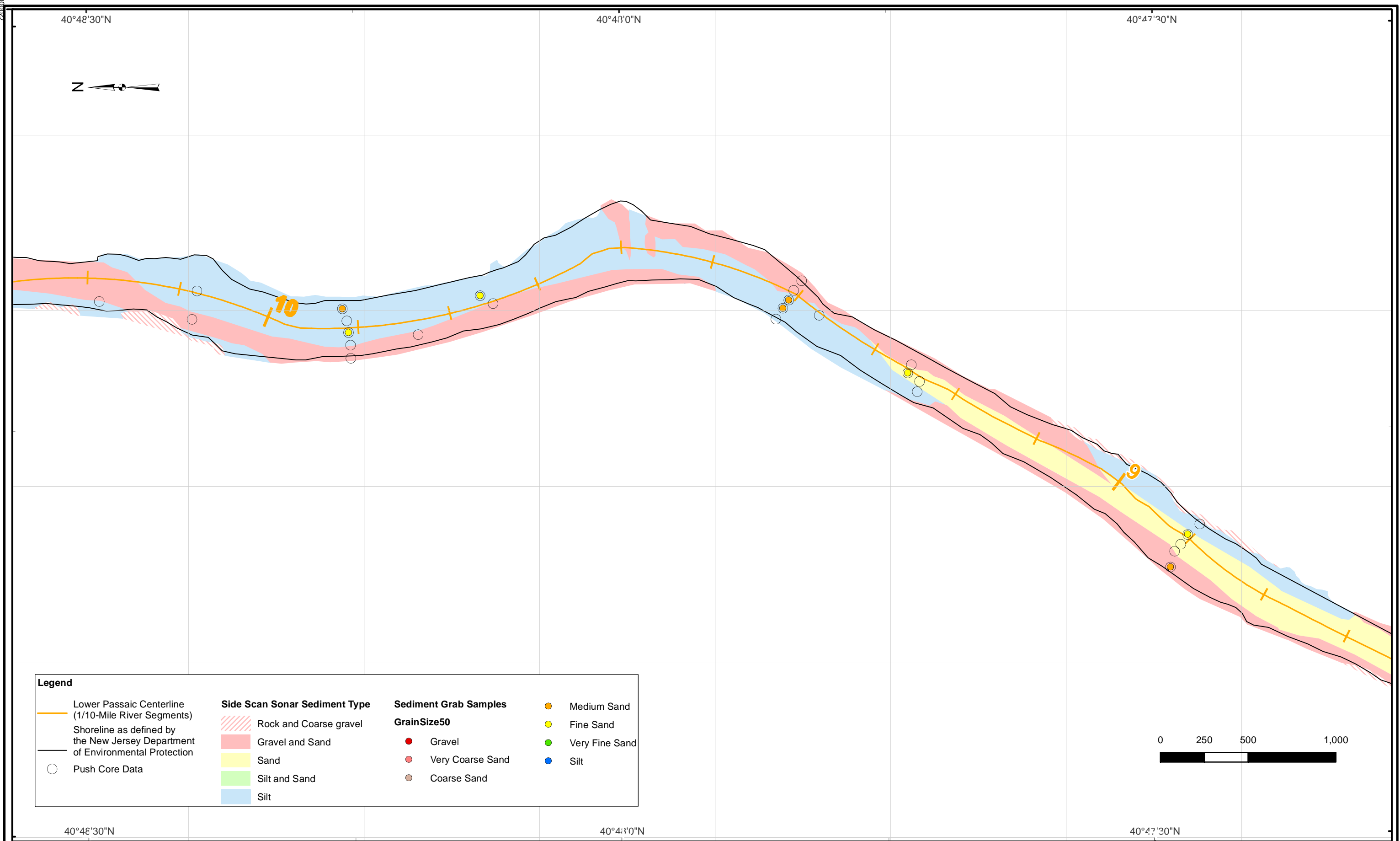


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2i

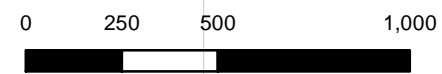
September 2008





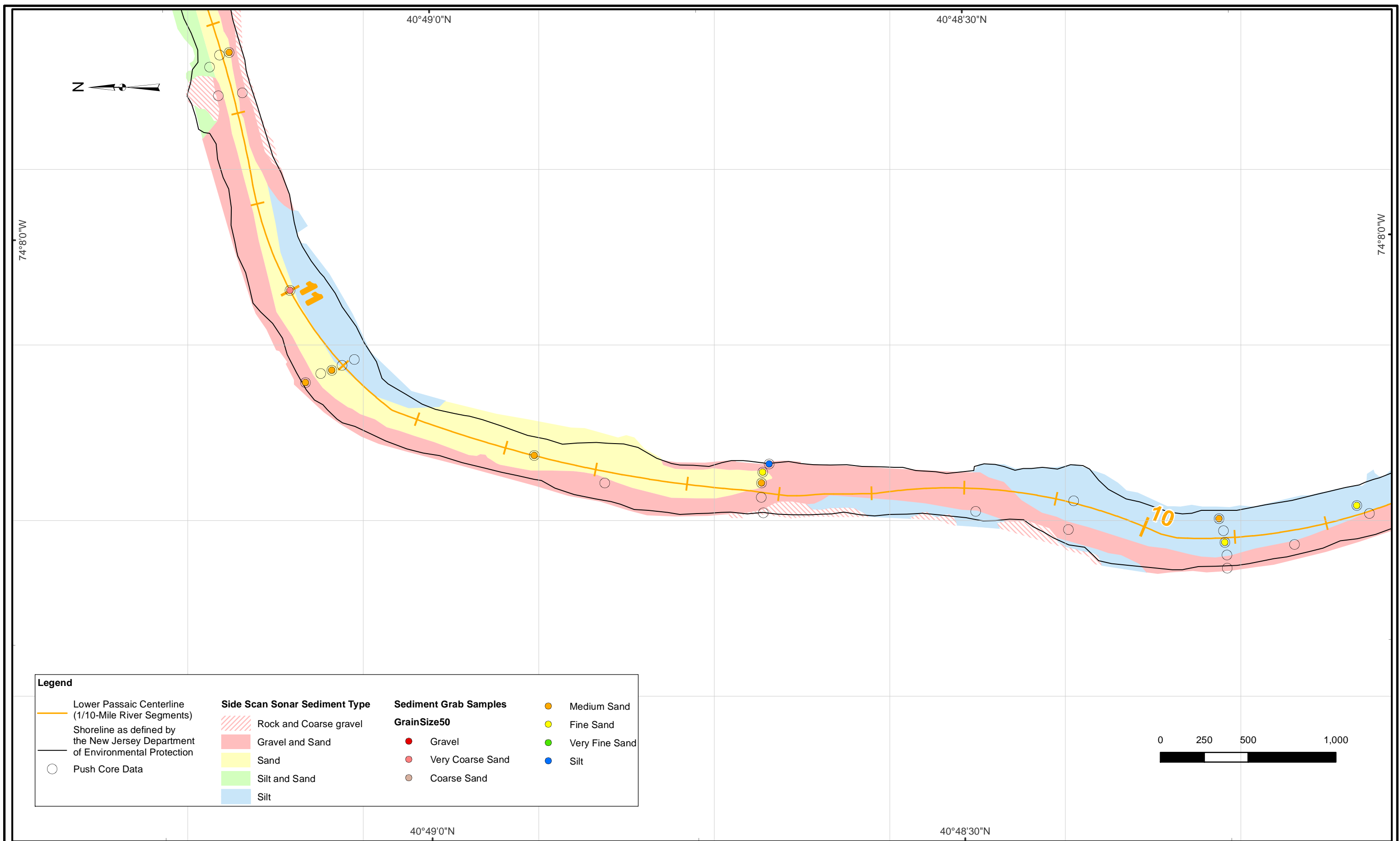
Legend

Lower Passaic Centerline (1/10-Mile River Segments)	Side Scan Sonar Sediment Type	Sediment Grab Samples GrainSize50	
Shoreline as defined by the New Jersey Department of Environmental Protection	Rock and Coarse gravel	Gravel	Medium Sand
Push Core Data	Gravel and Sand	Very Coarse Sand	Fine Sand
	Sand	Coarse Sand	Very Fine Sand
	Silt and Sand		Silt
	Silt		



Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2j
September 2008

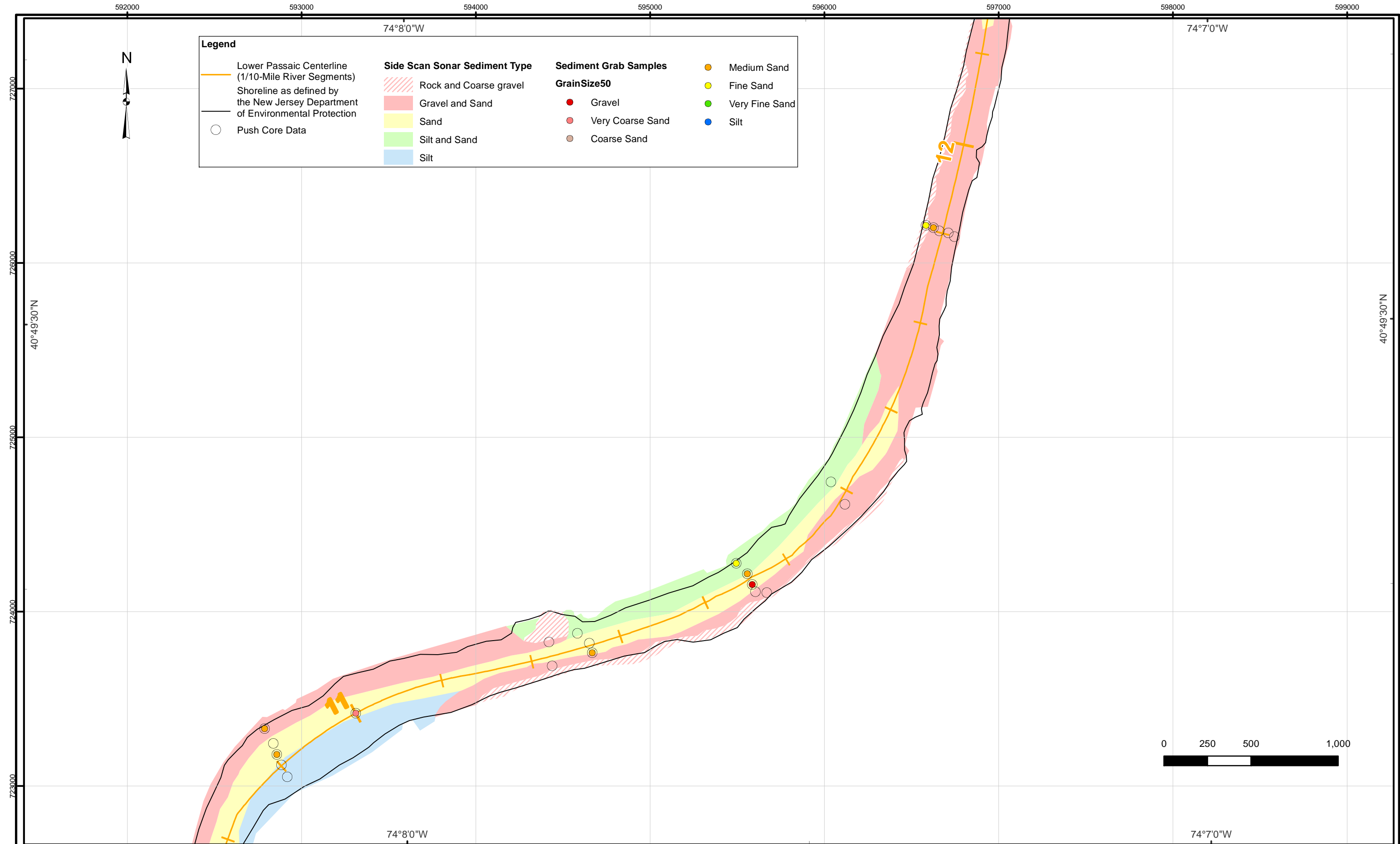


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2k

September 2008



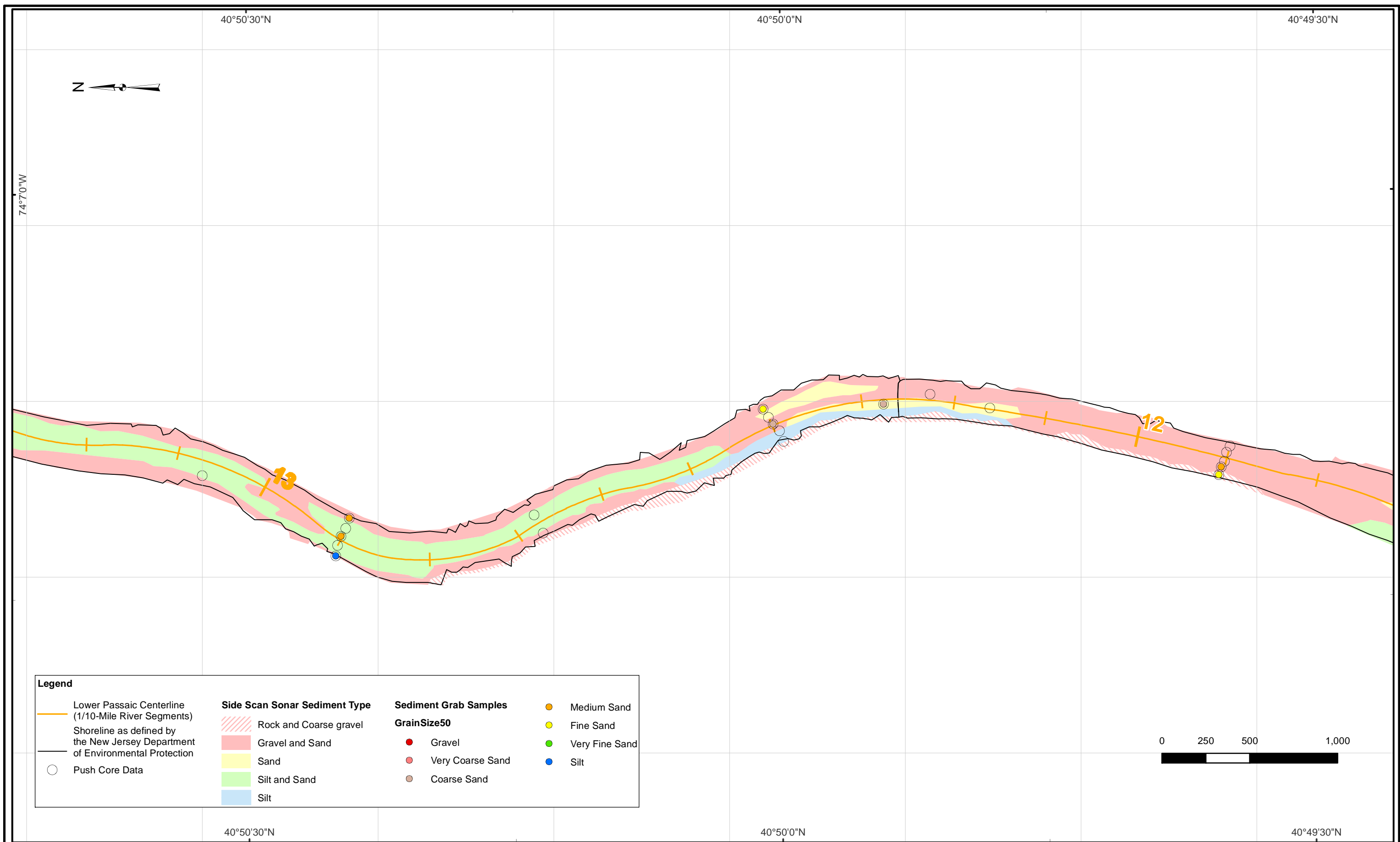


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project



Figure 11-21

September 2008

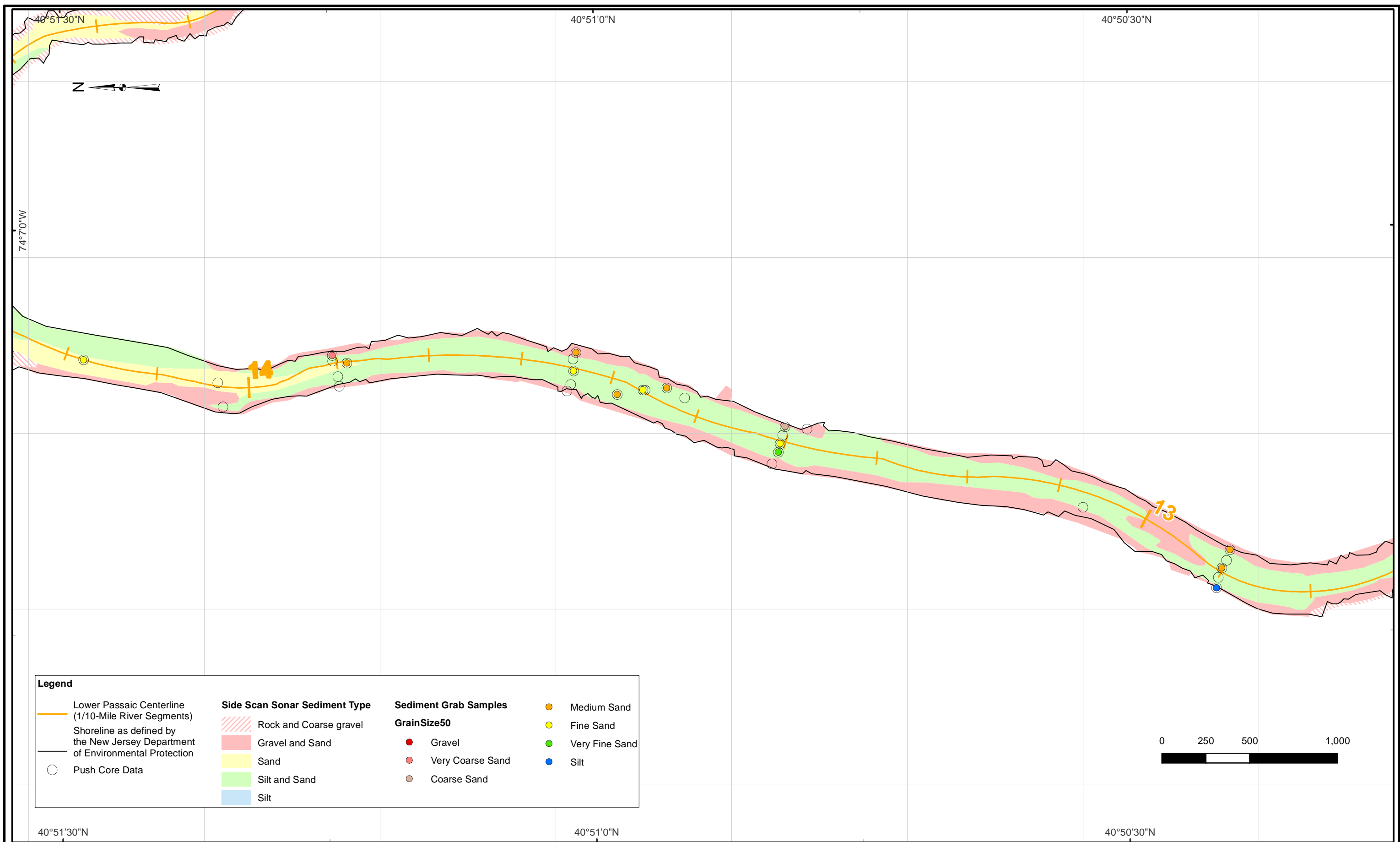


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2m

September 2008



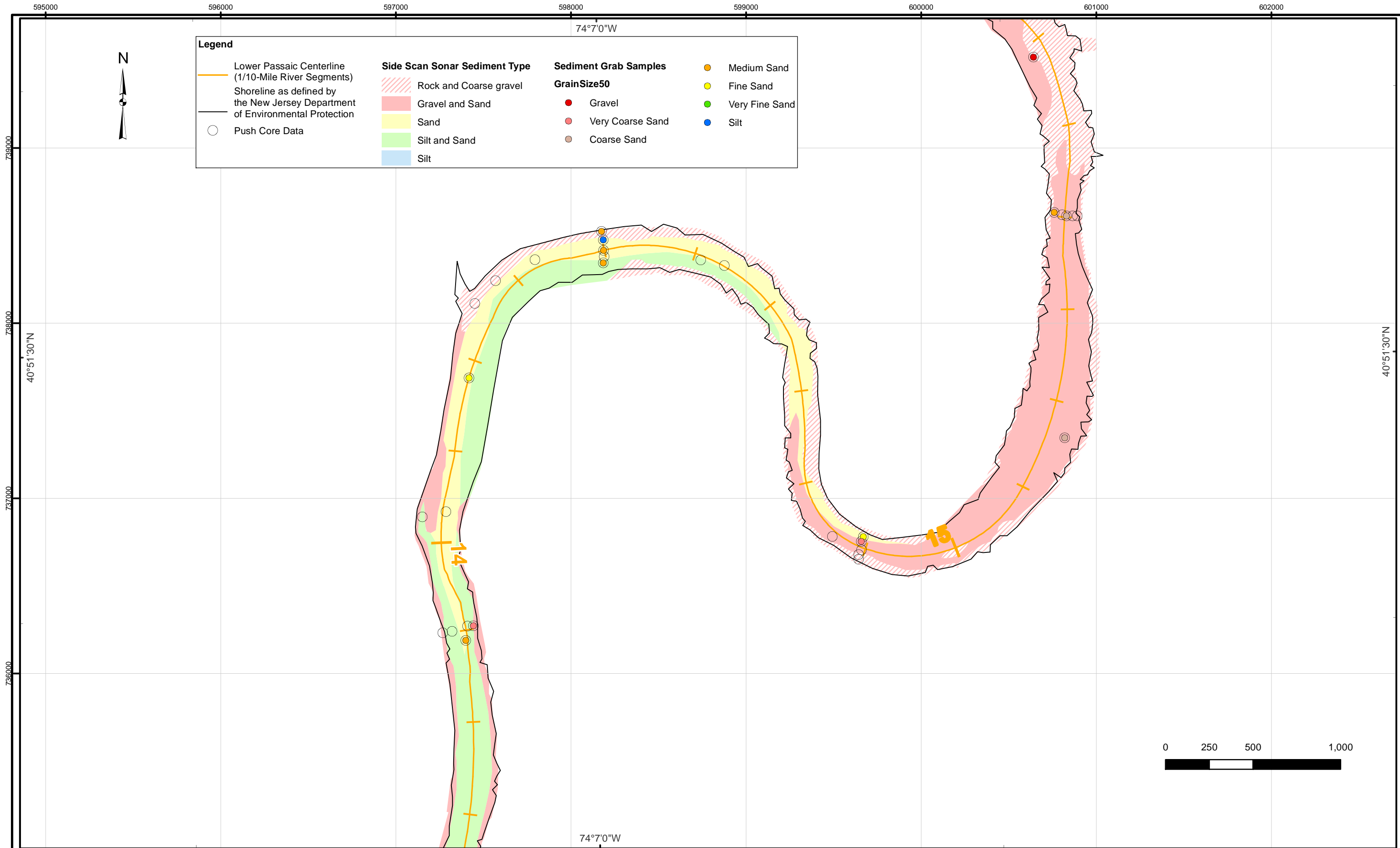


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2n

September 2008

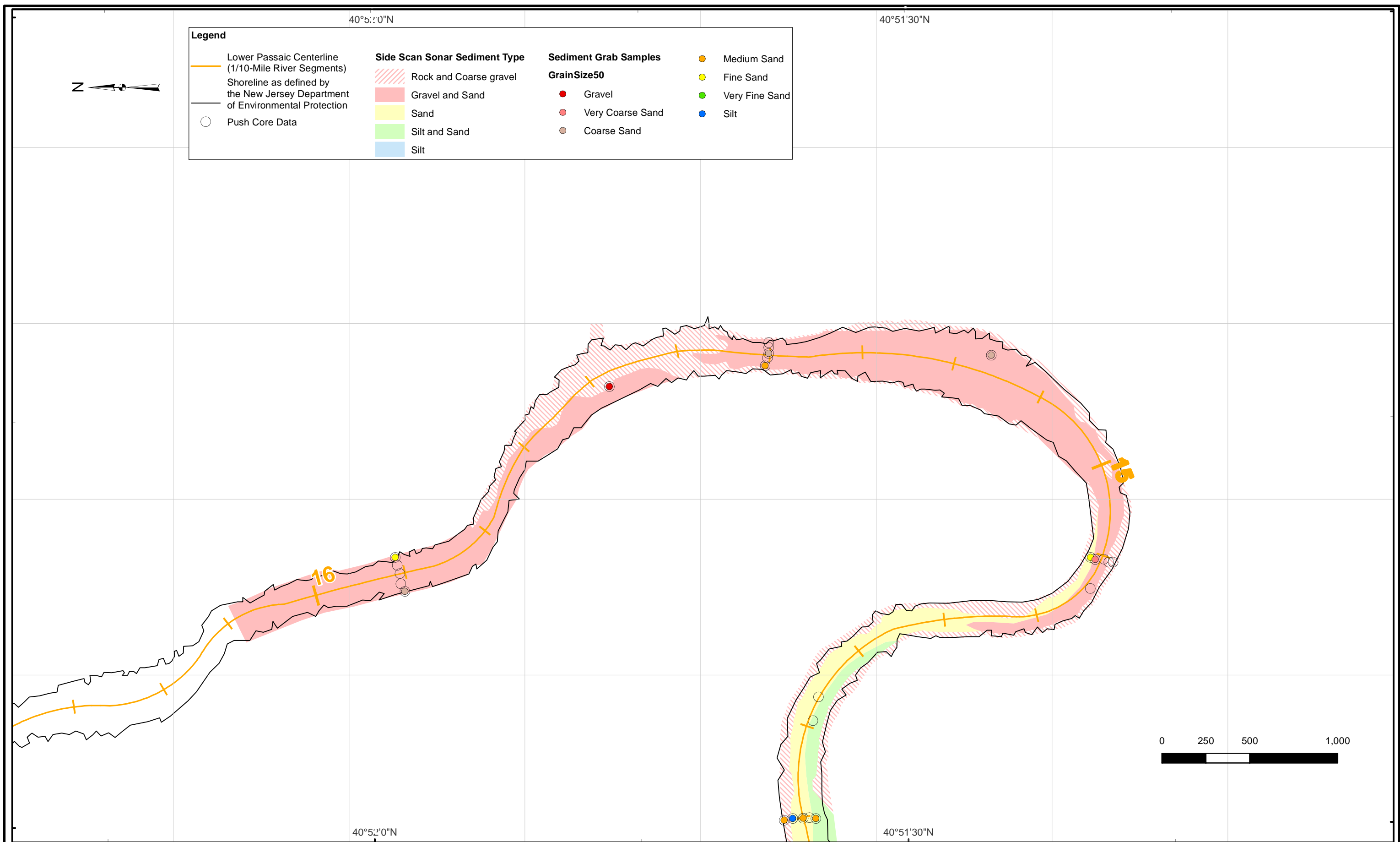




Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2o

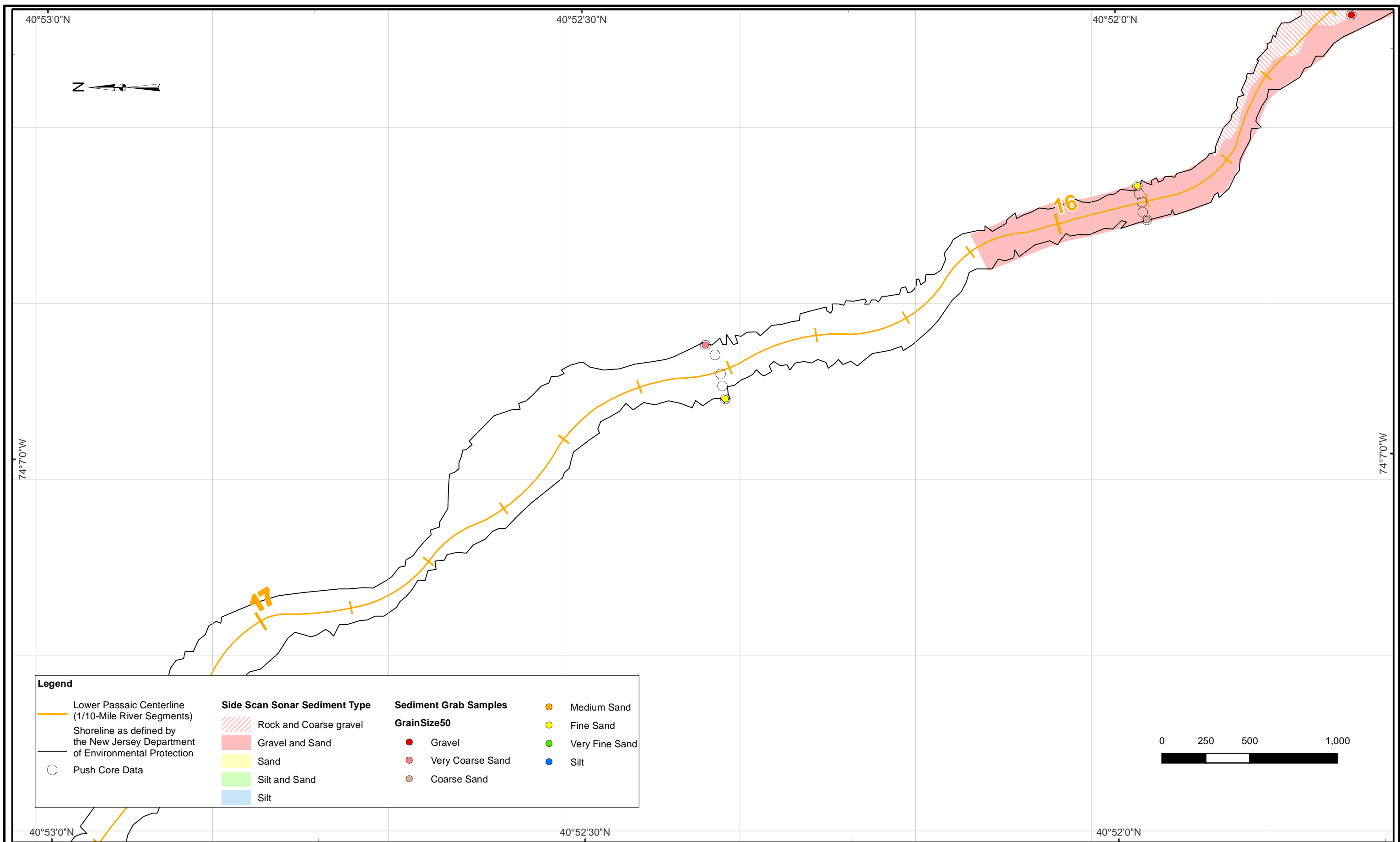
September 2008



Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2p

September 2008

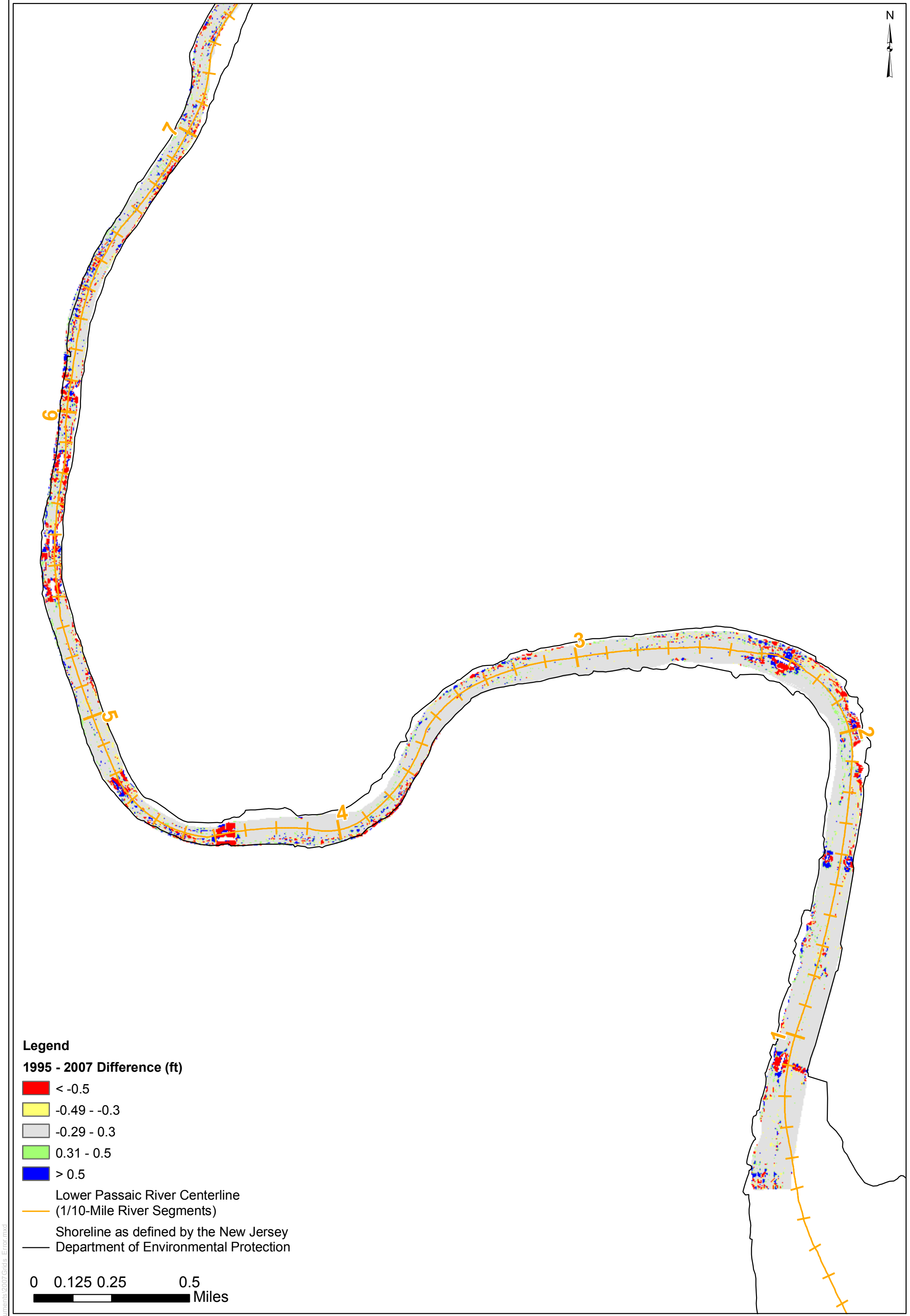


Side Scan Sonar Sediment Domains and Associated Sediment Grab Samples
Lower Passaic River Restoration Project

Figure 11-2q

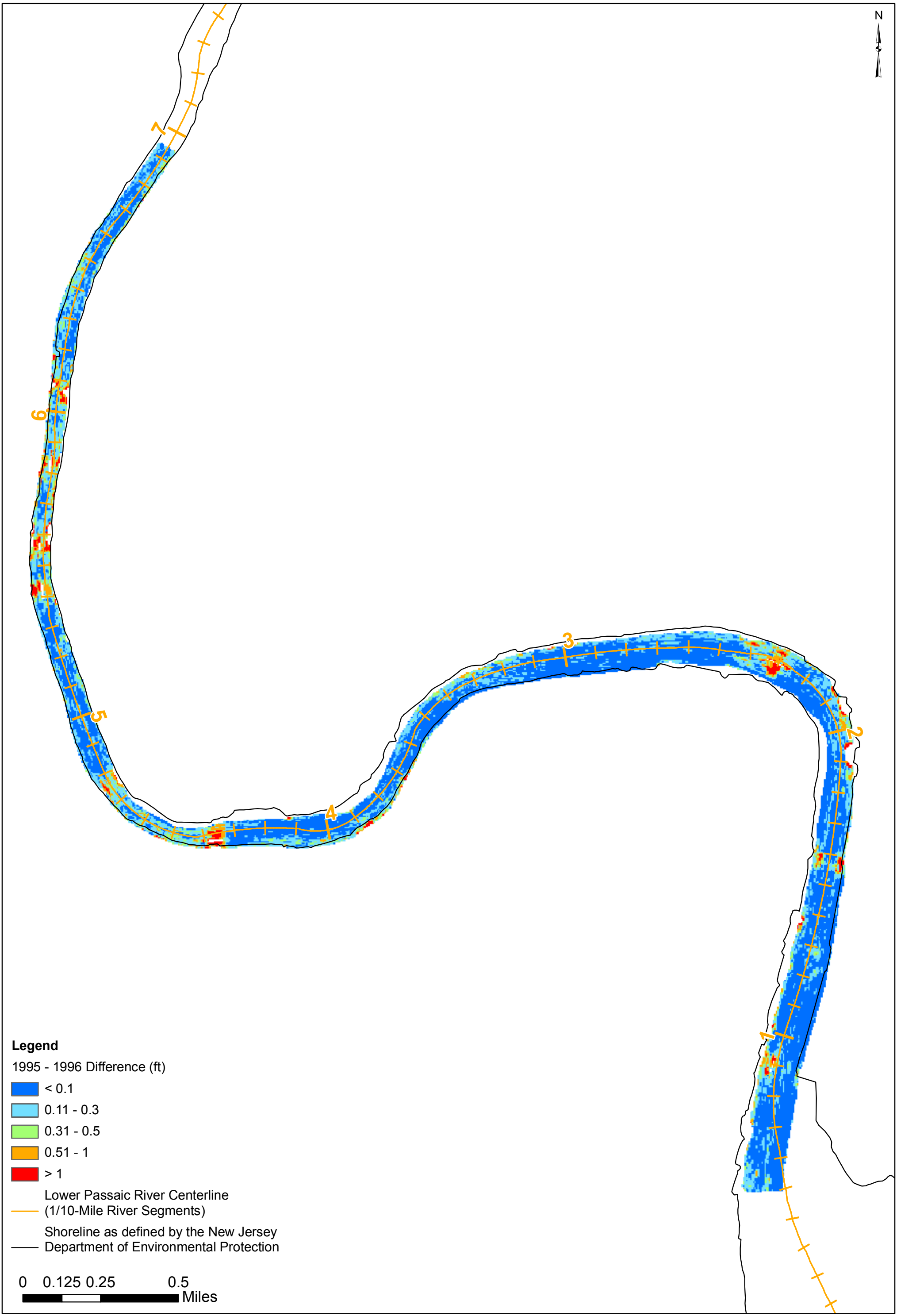
September 2008





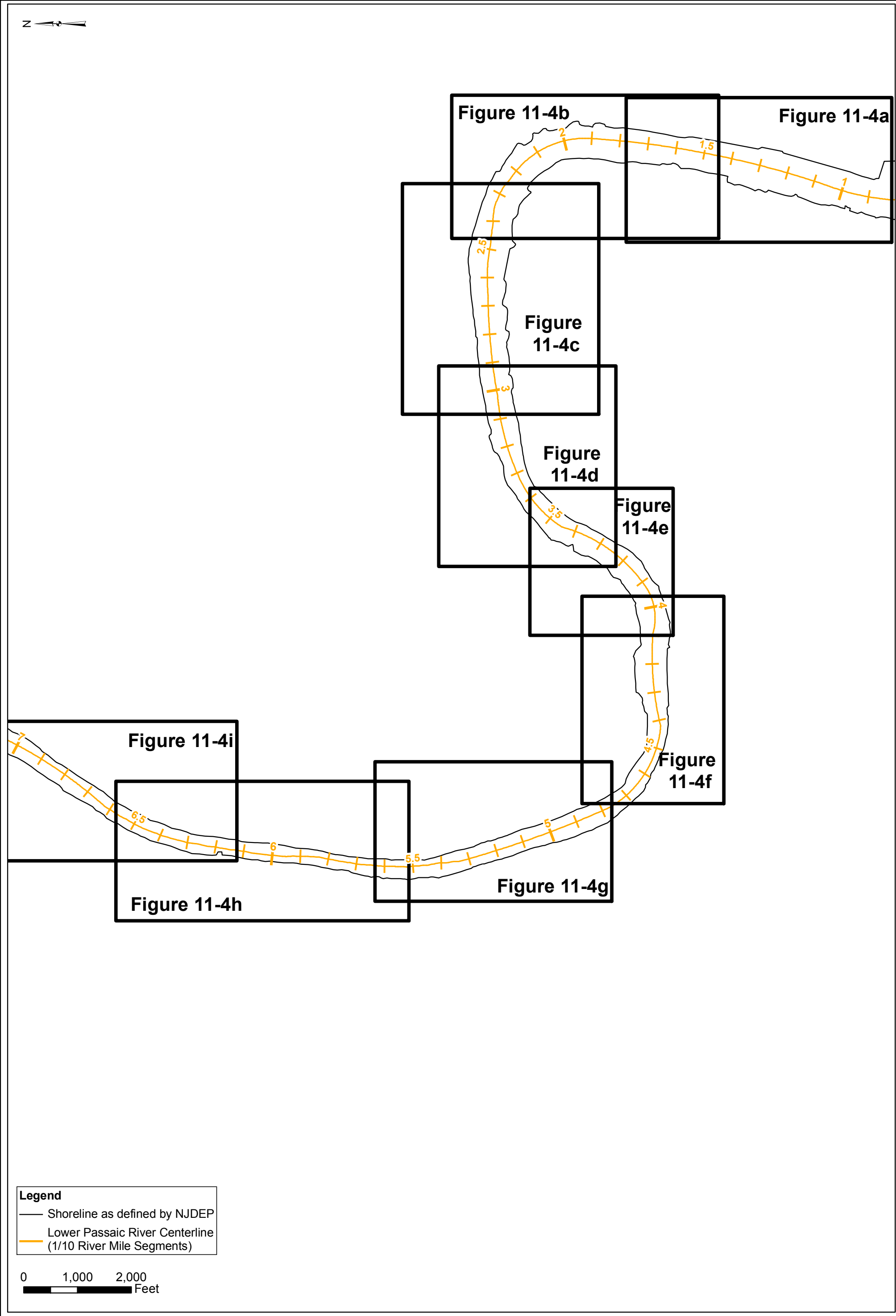
TIN to 2007 Grid Uncertainty Evaluation

Lower Passaic River Restoration Project



TIN to TIN Uncertainty Evaluation

Lower Passaic River Restoration Project



Sedimentation Rate (1995 to 2004)
Lower Passaic River Restoration Project

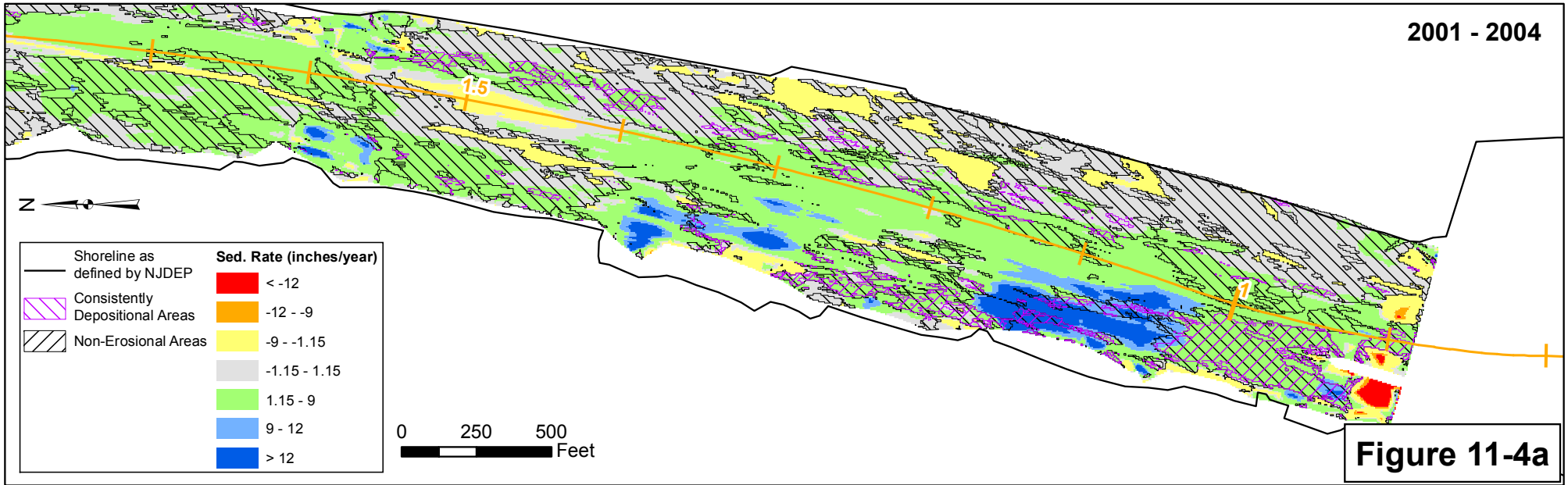
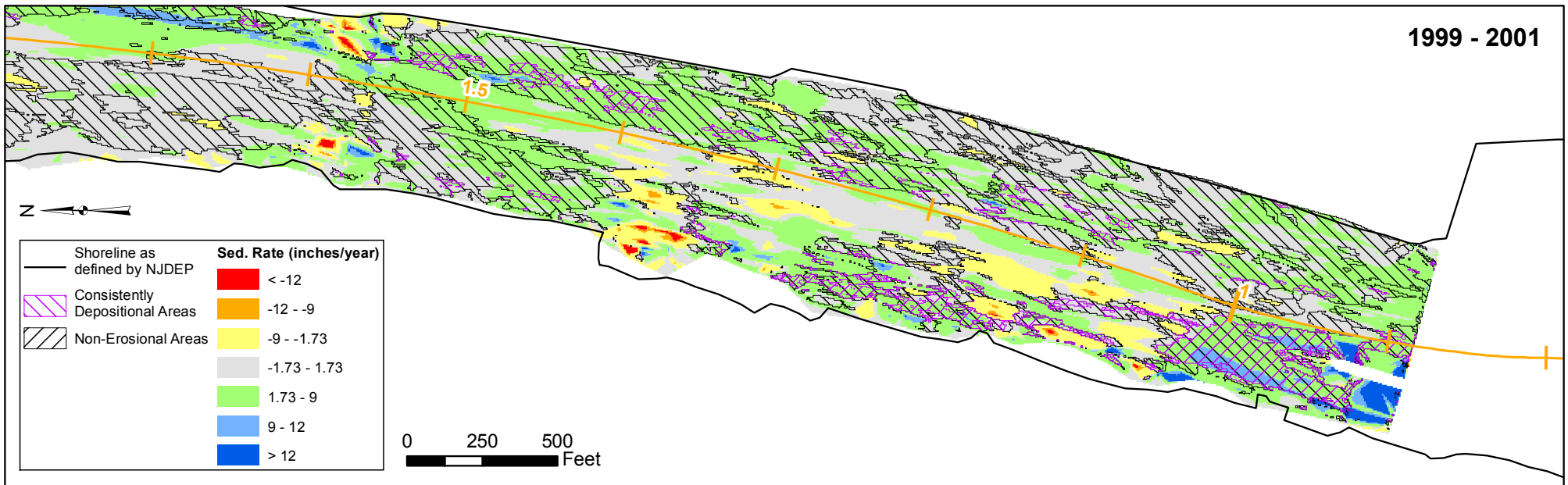
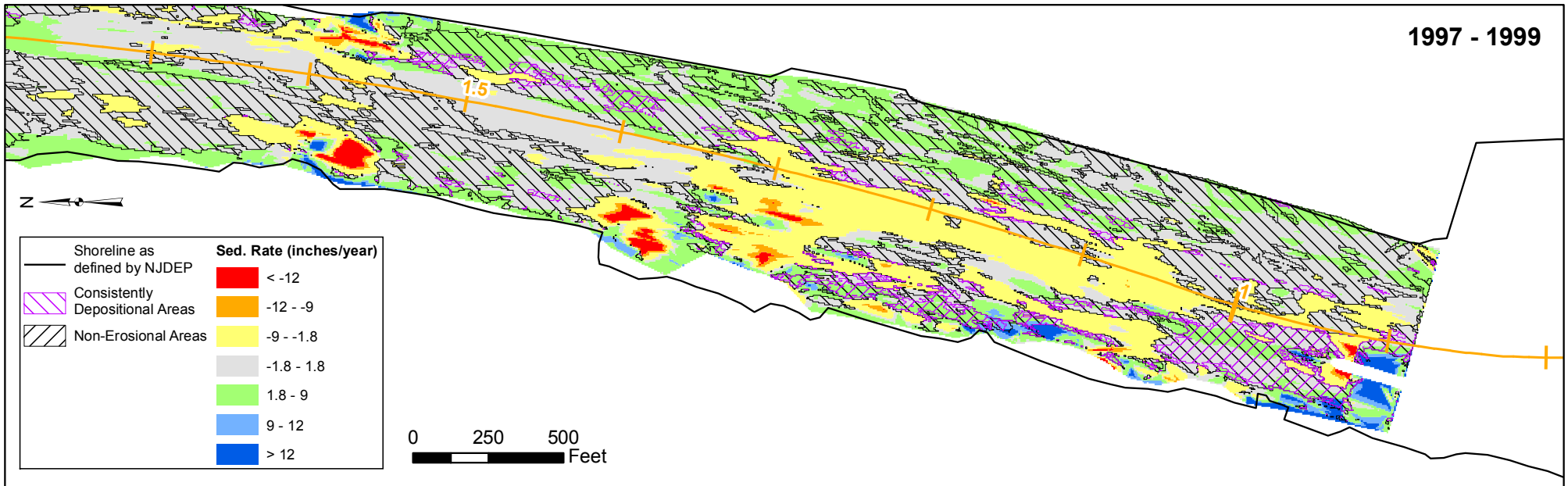
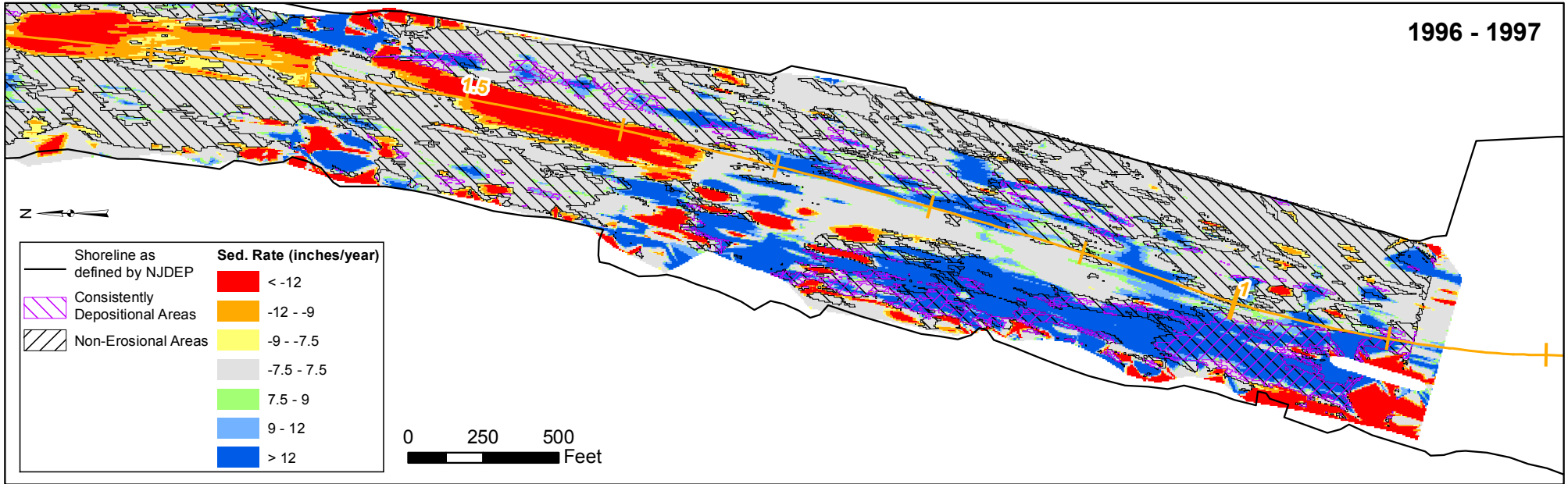
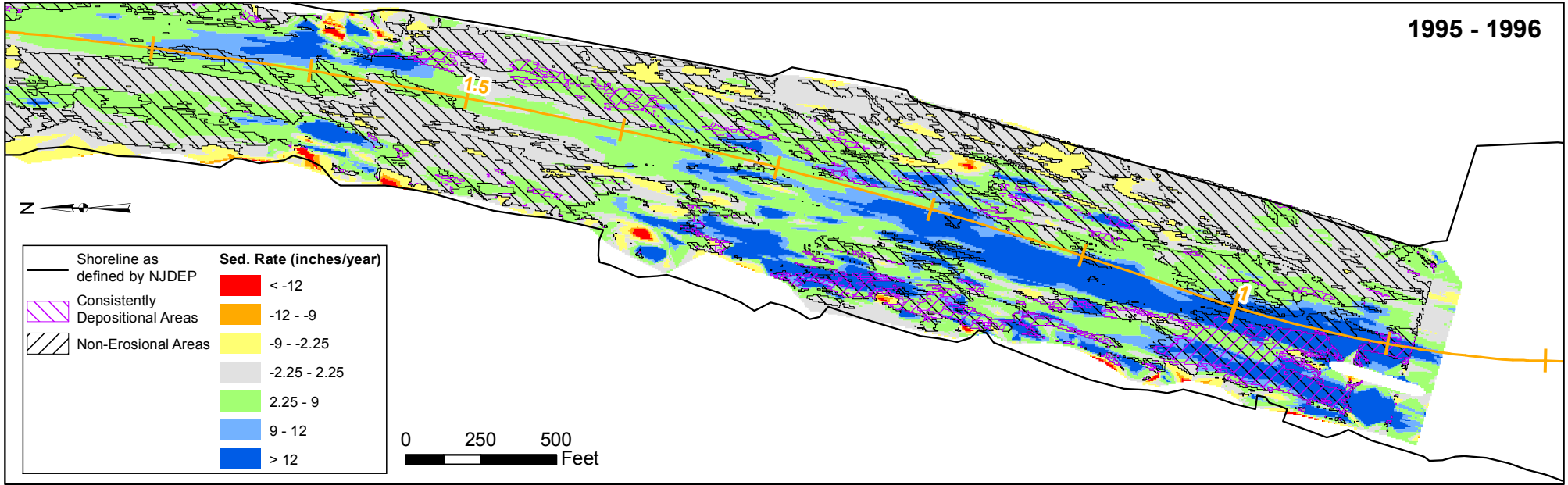


Figure 11-4a

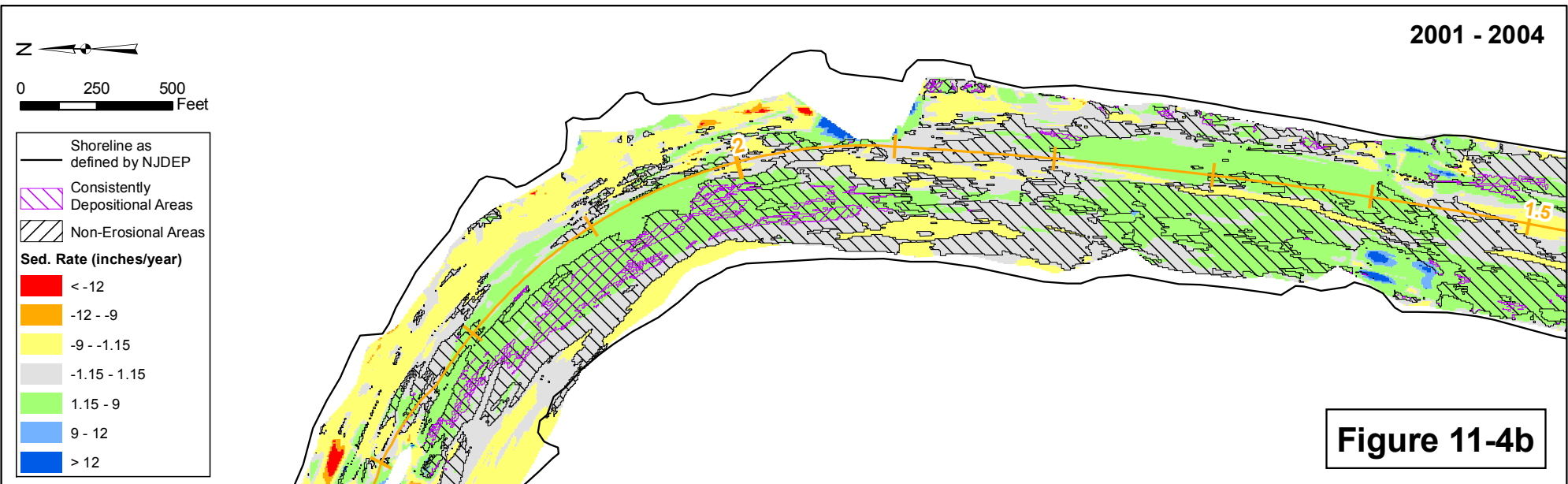
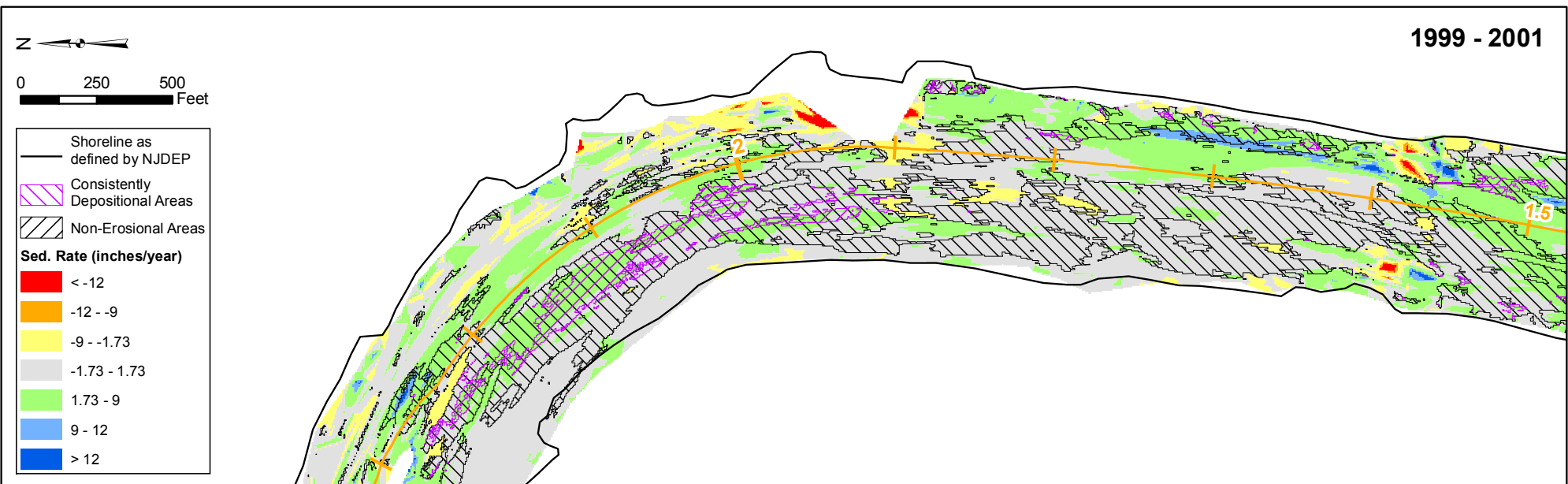
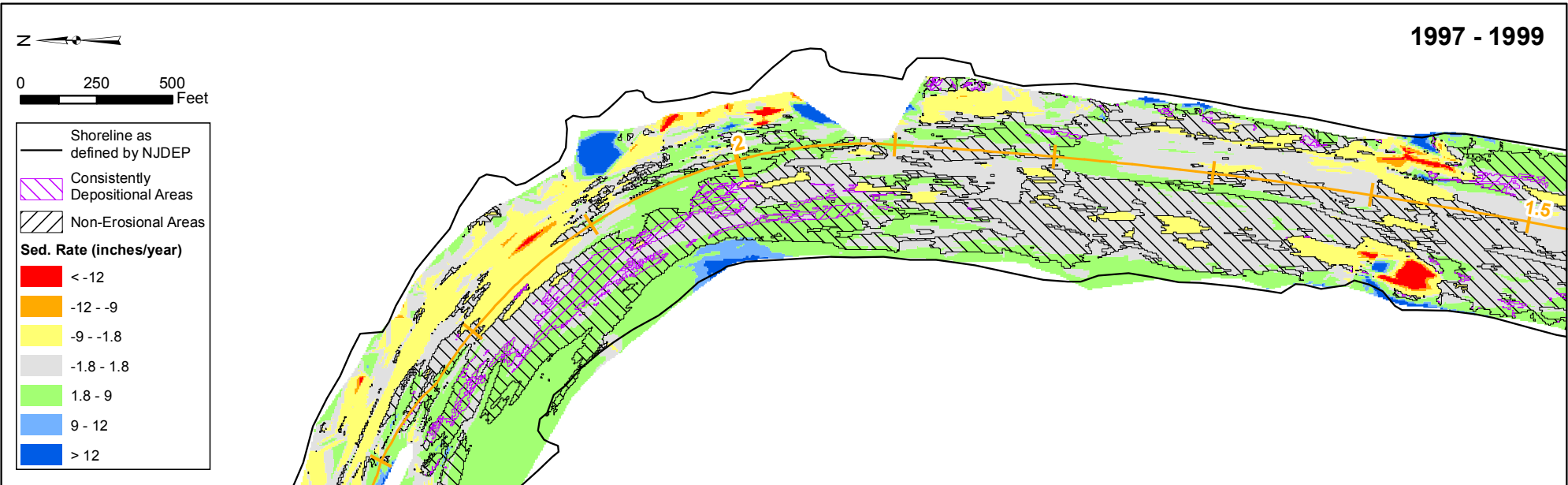
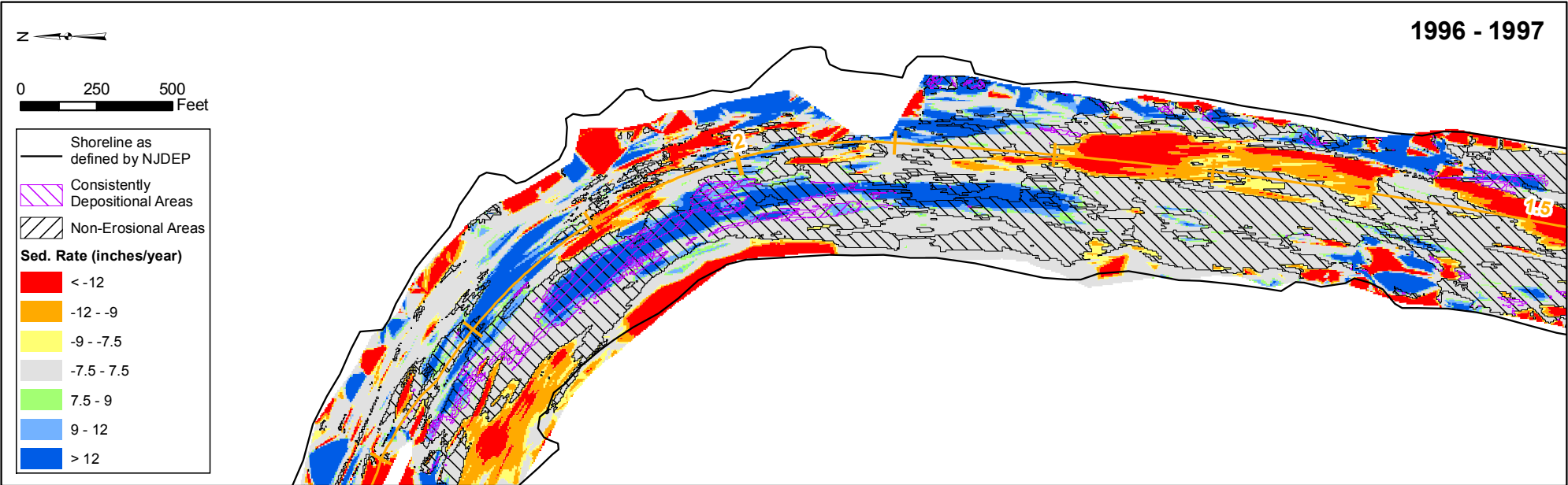
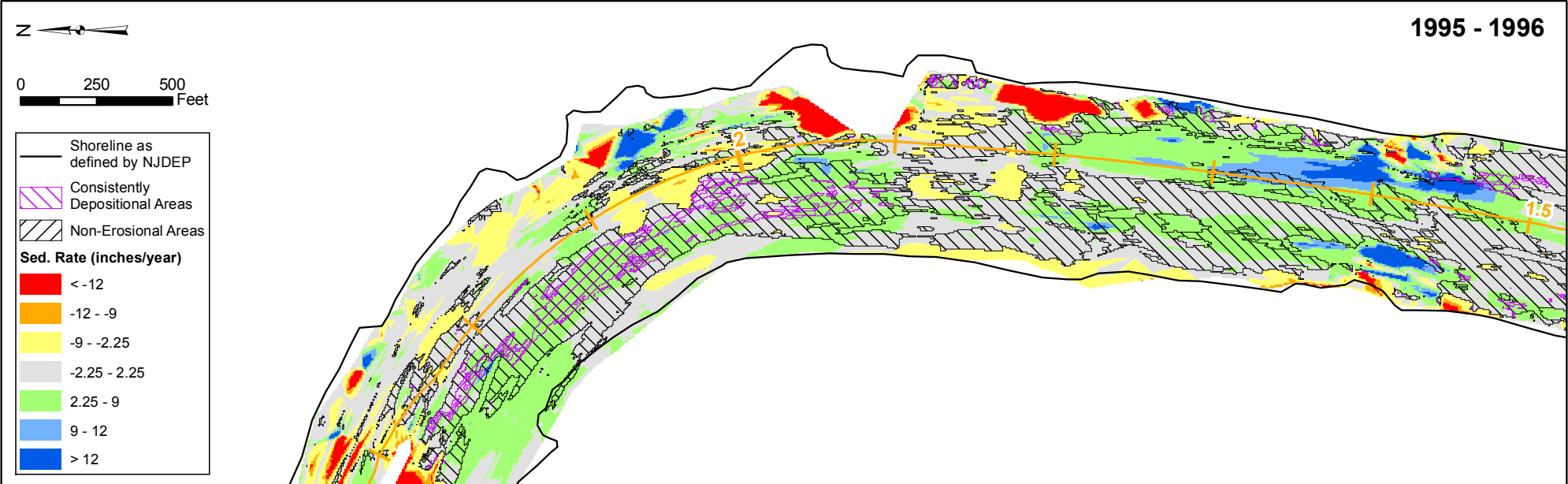


Figure 11-4b

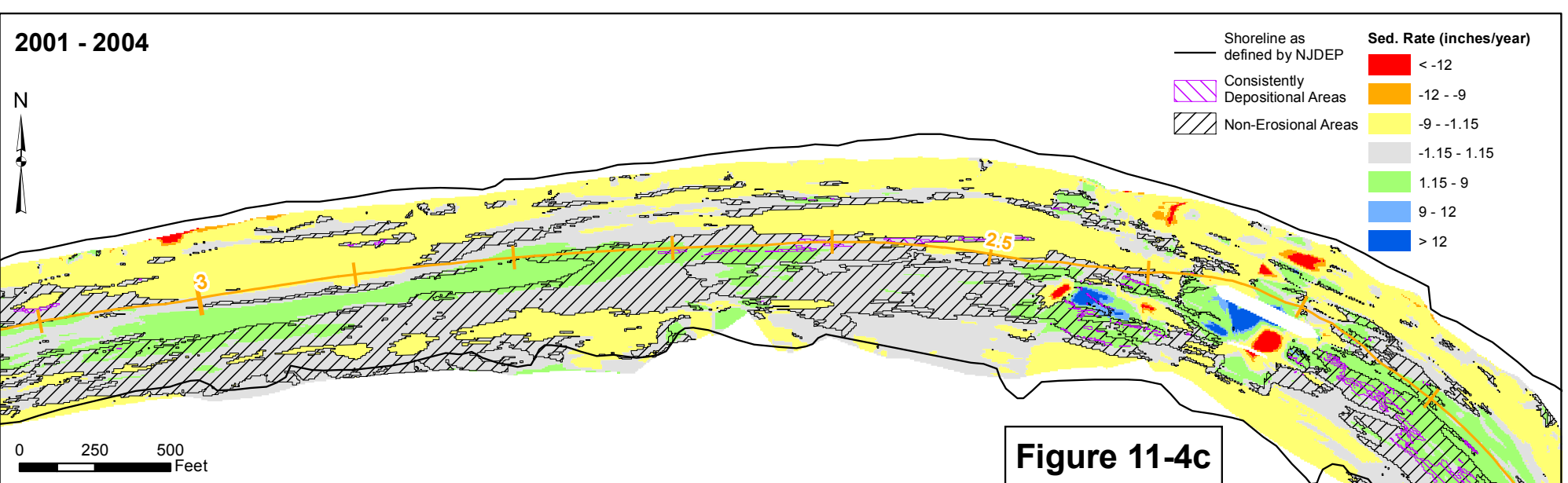
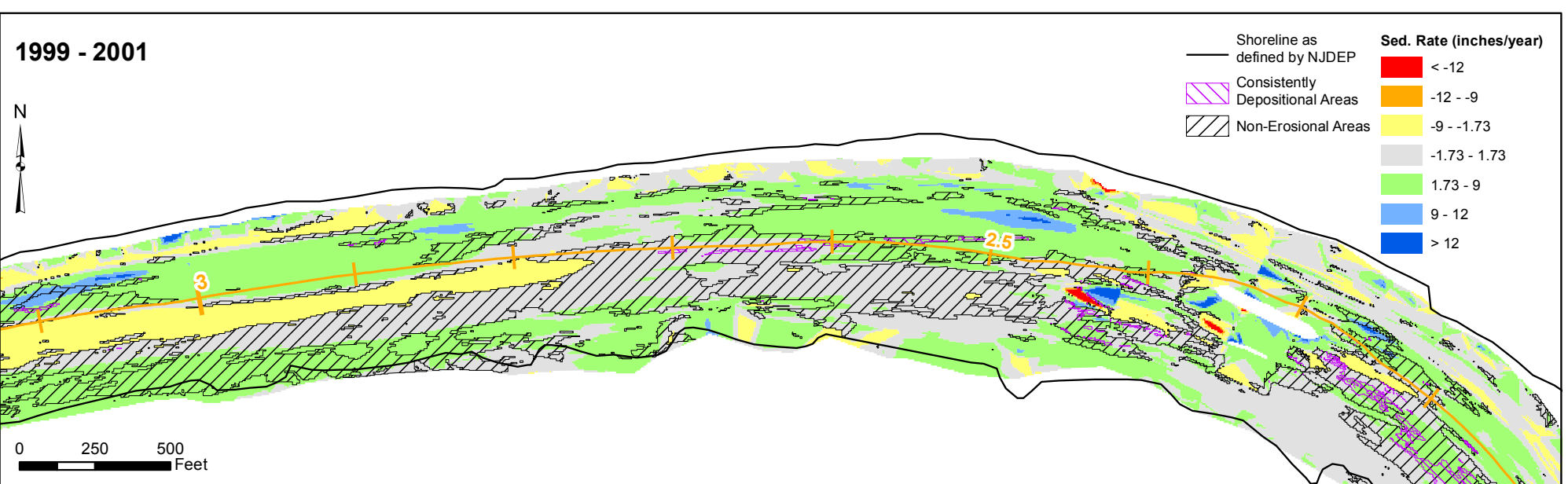
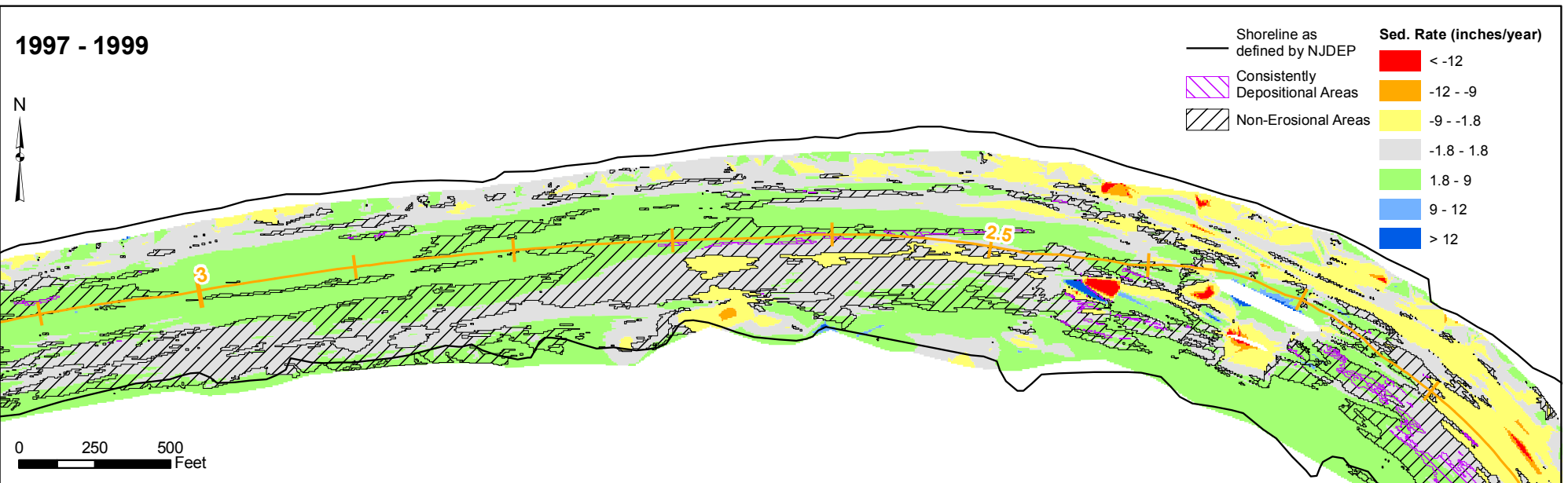
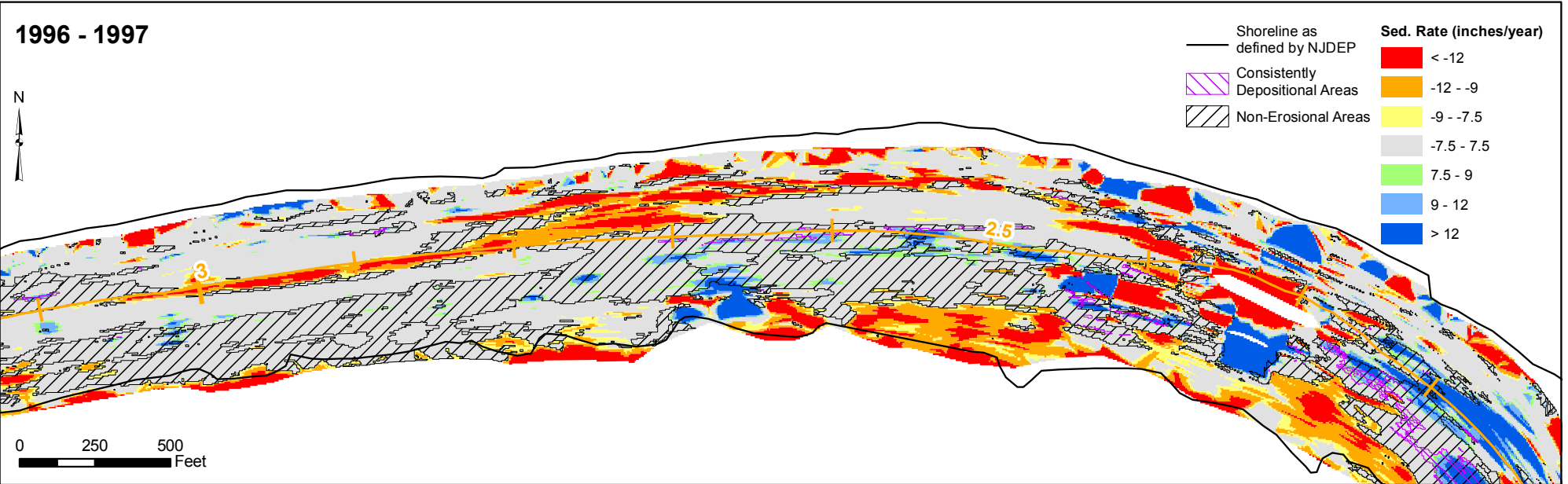
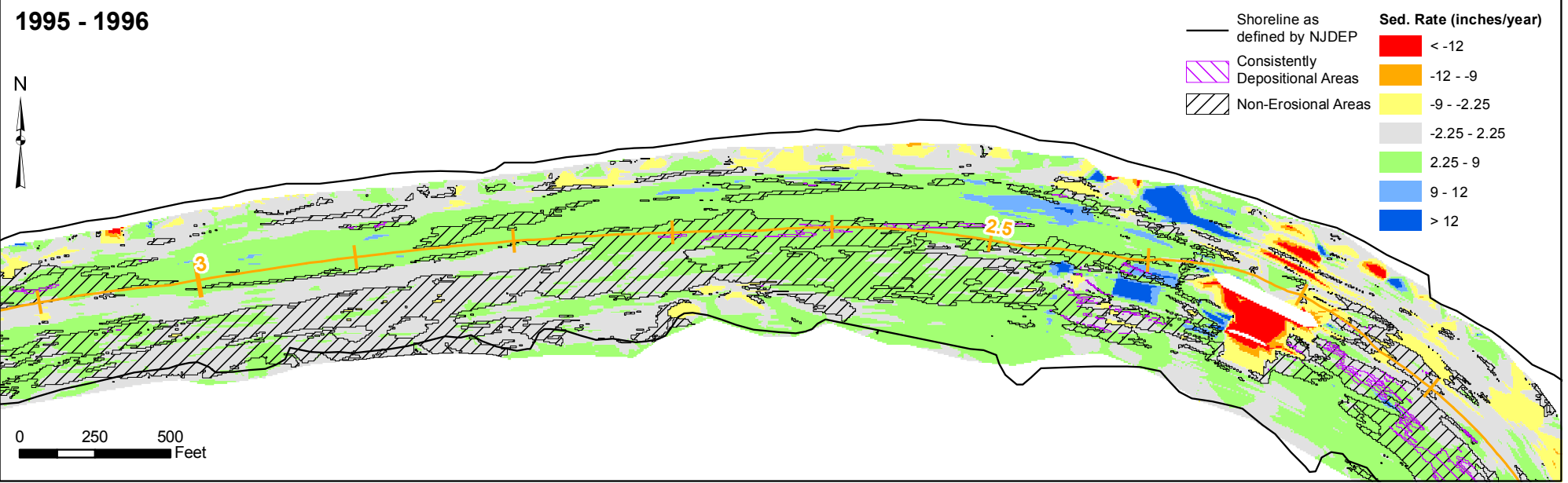
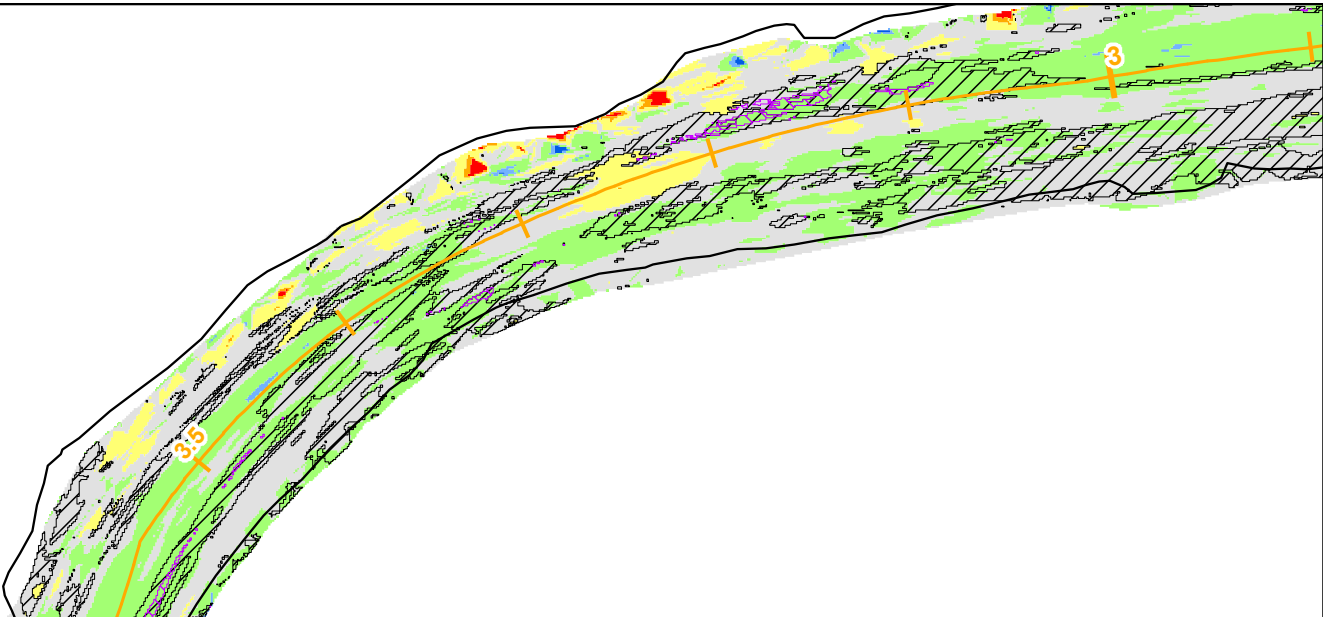
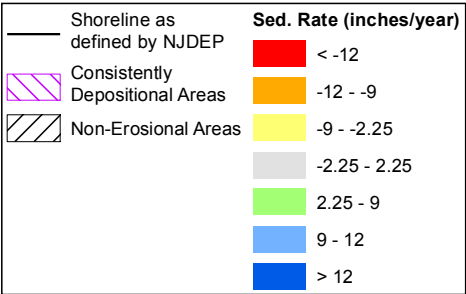
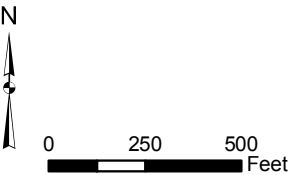
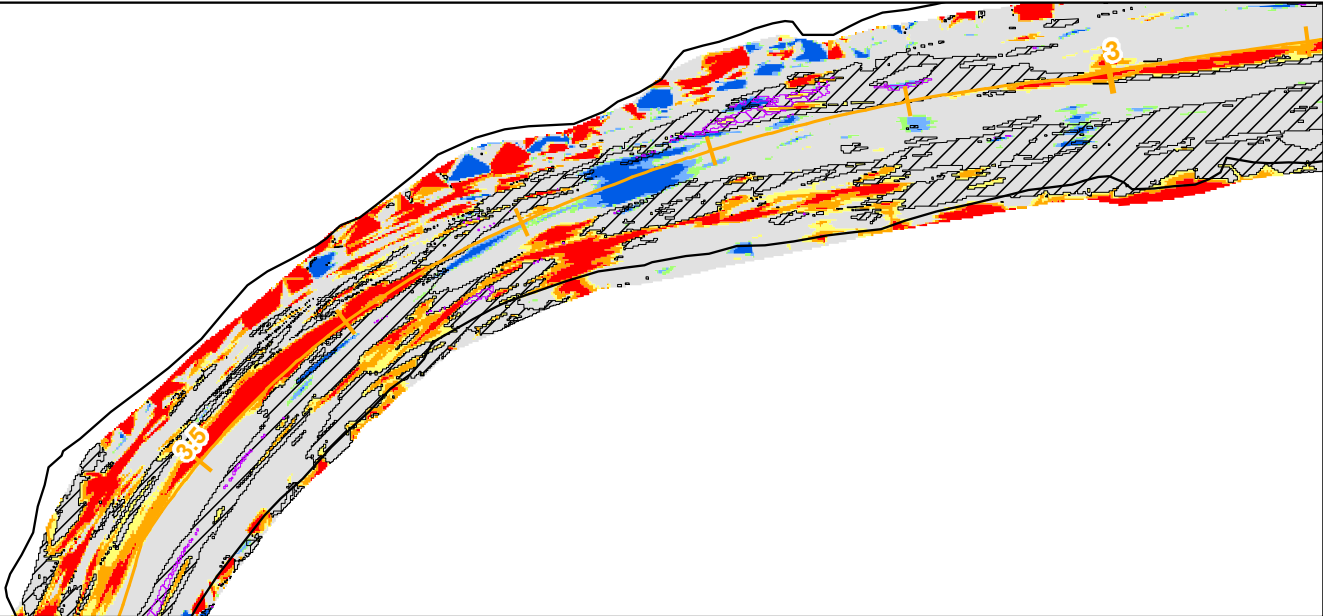
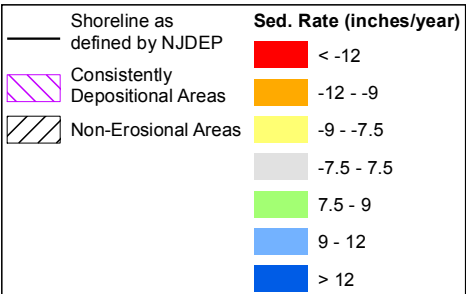
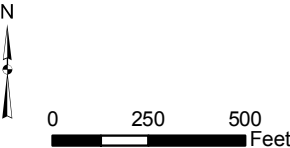


Figure 11-4c

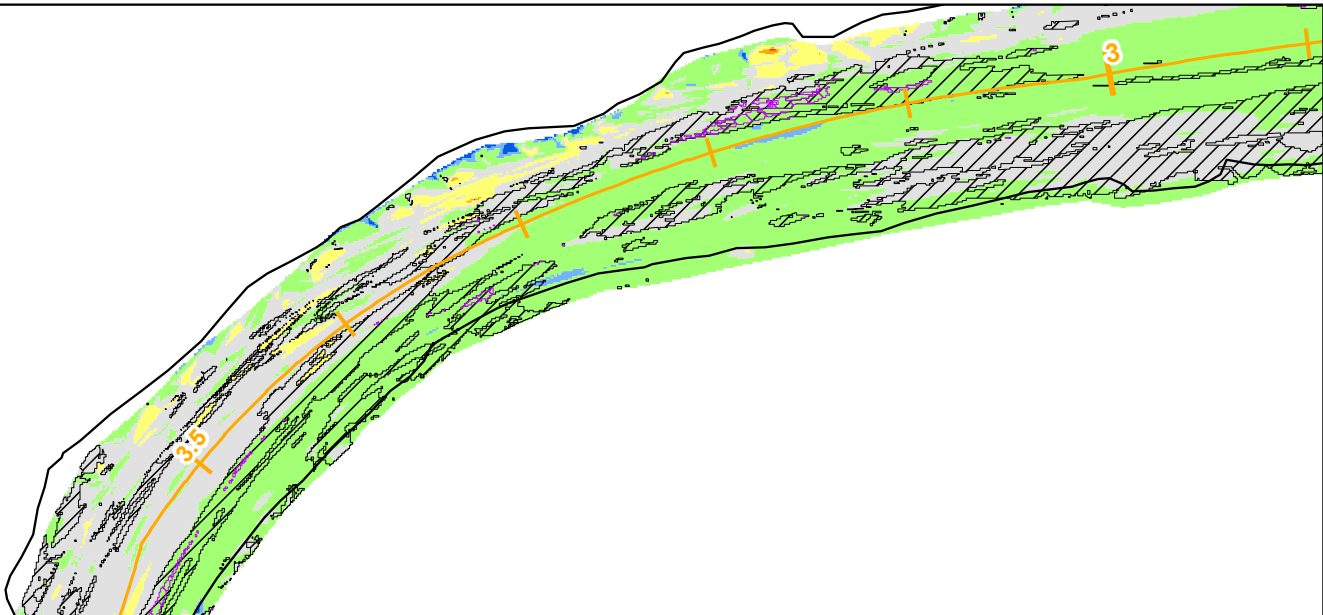
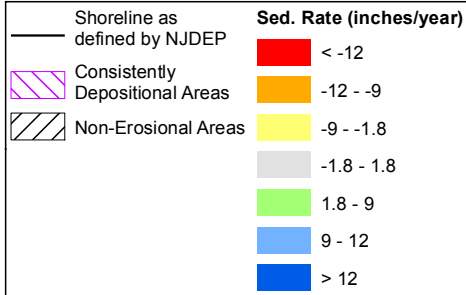
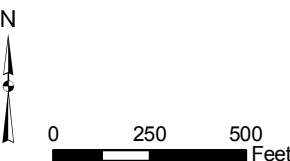
1995 - 1996



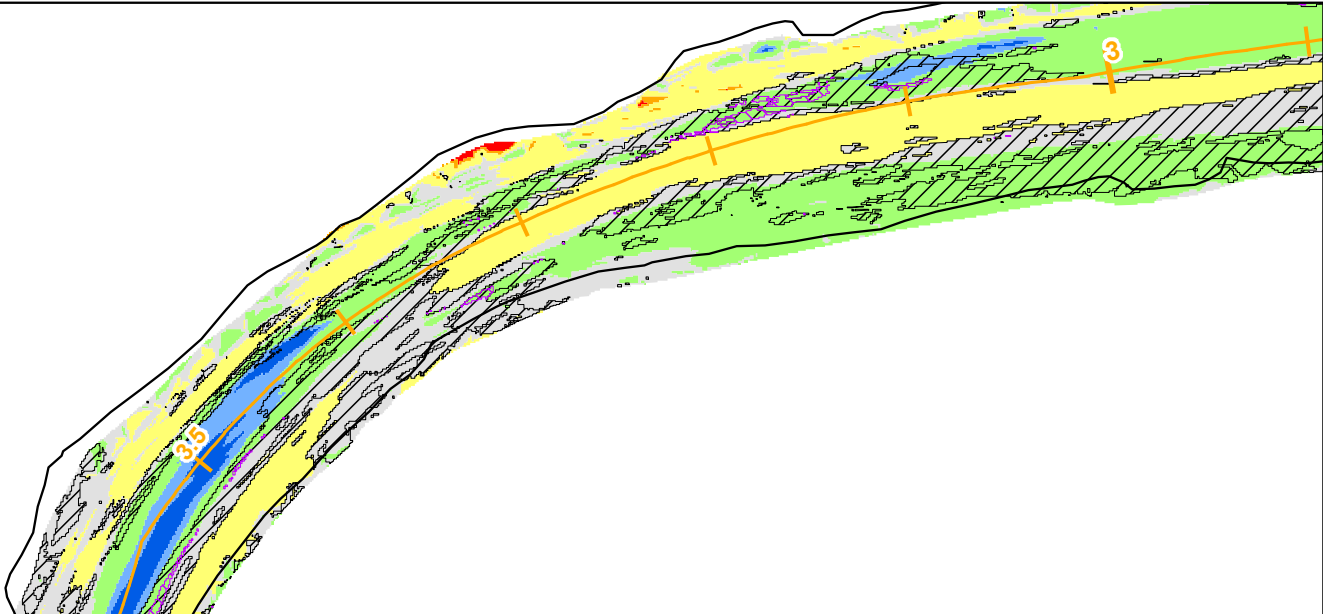
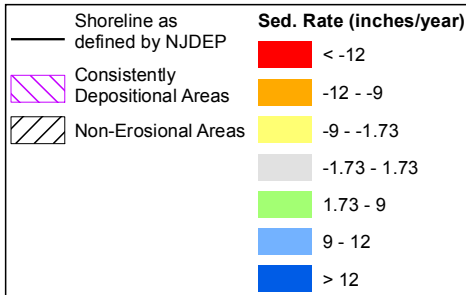
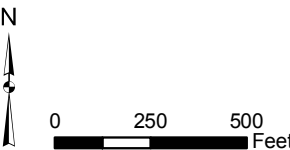
1996 - 1997



1997 - 1999



1999 - 2001



2001 - 2004

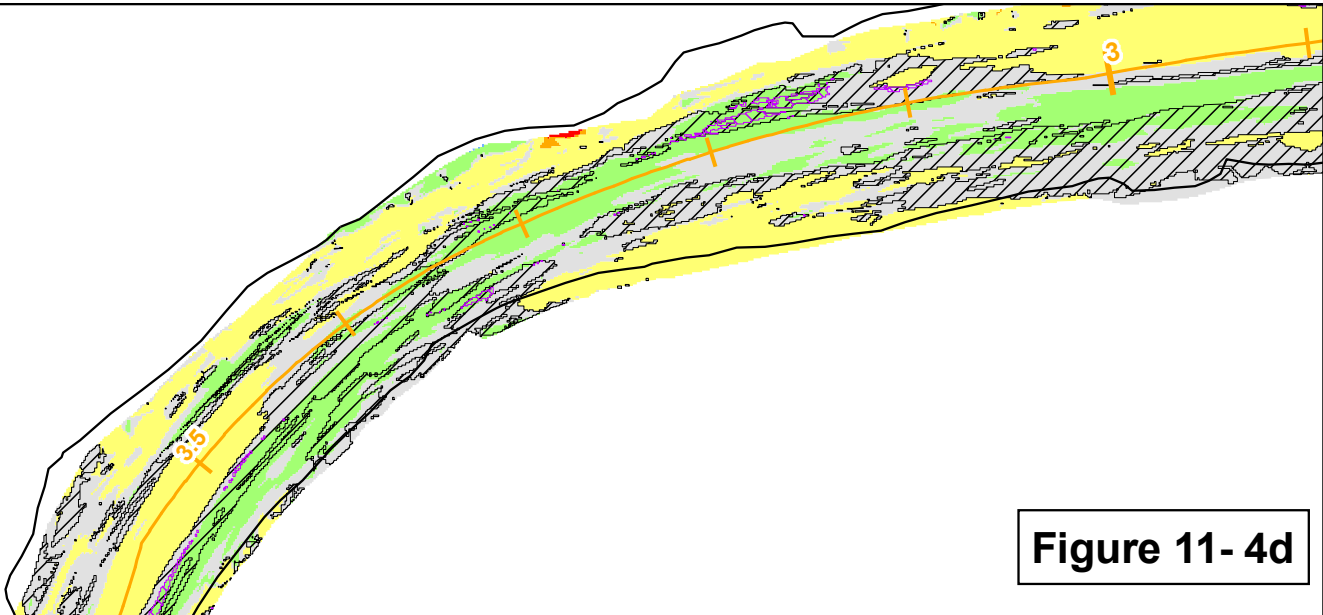
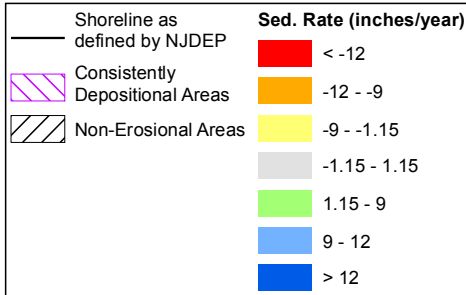
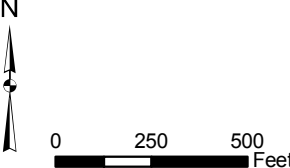
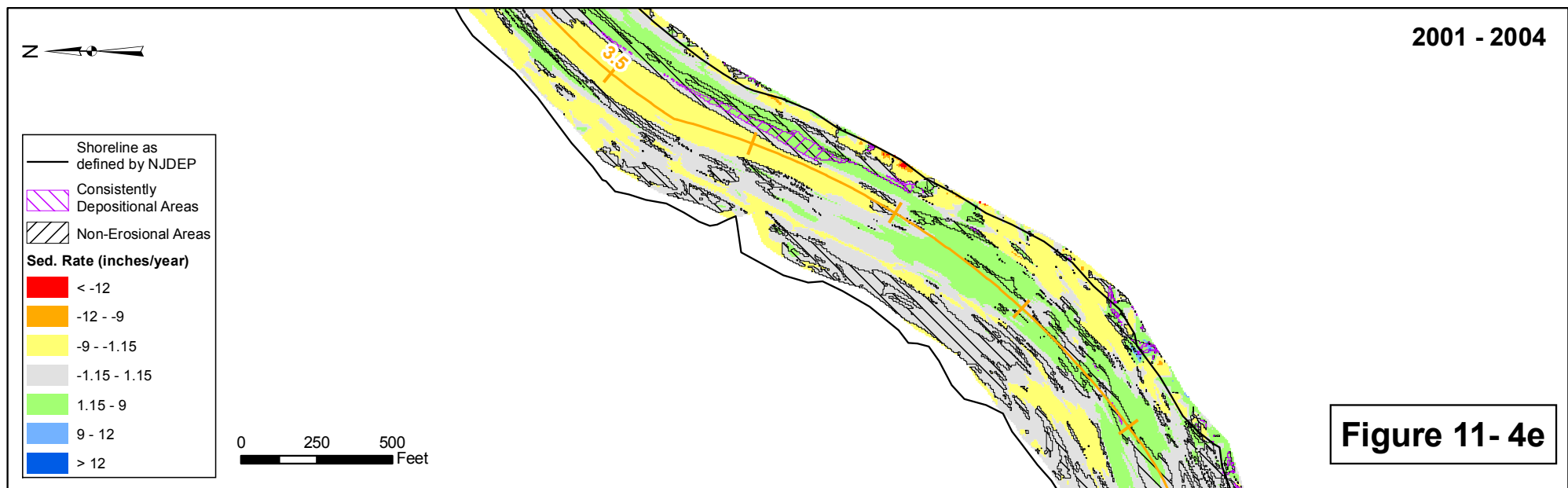
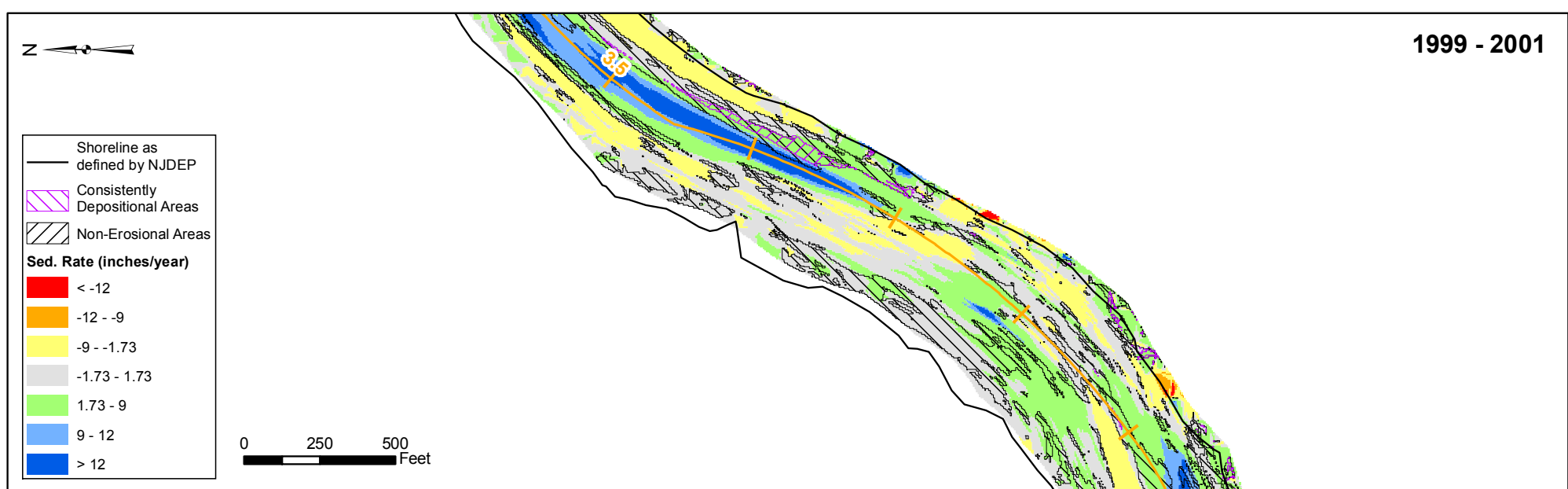
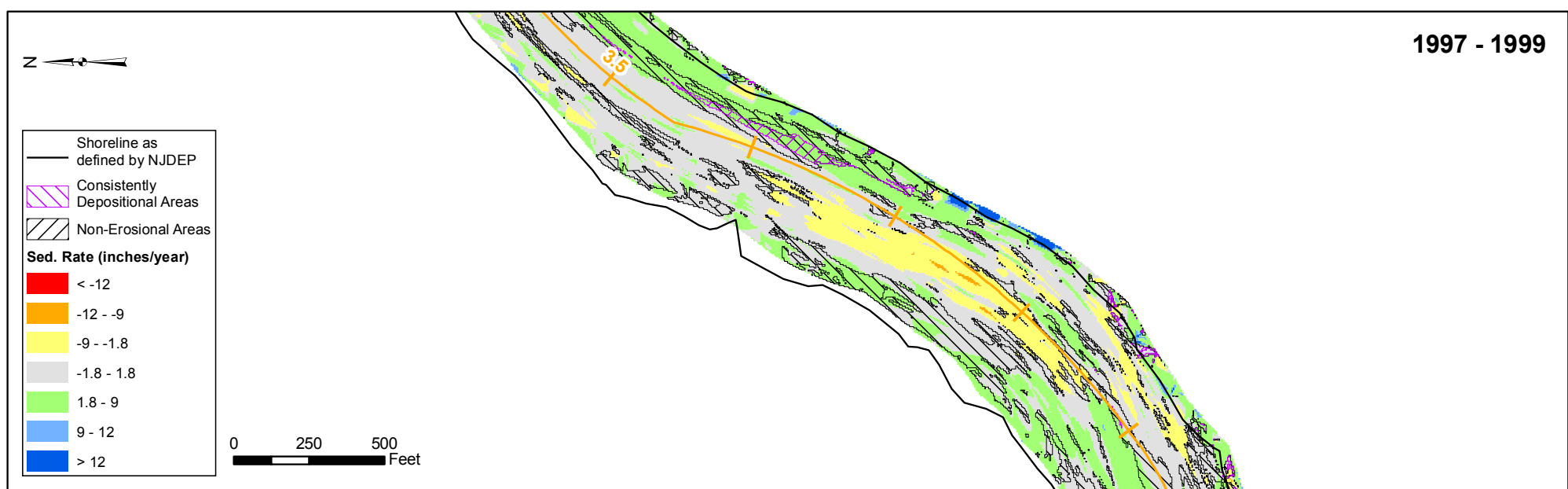
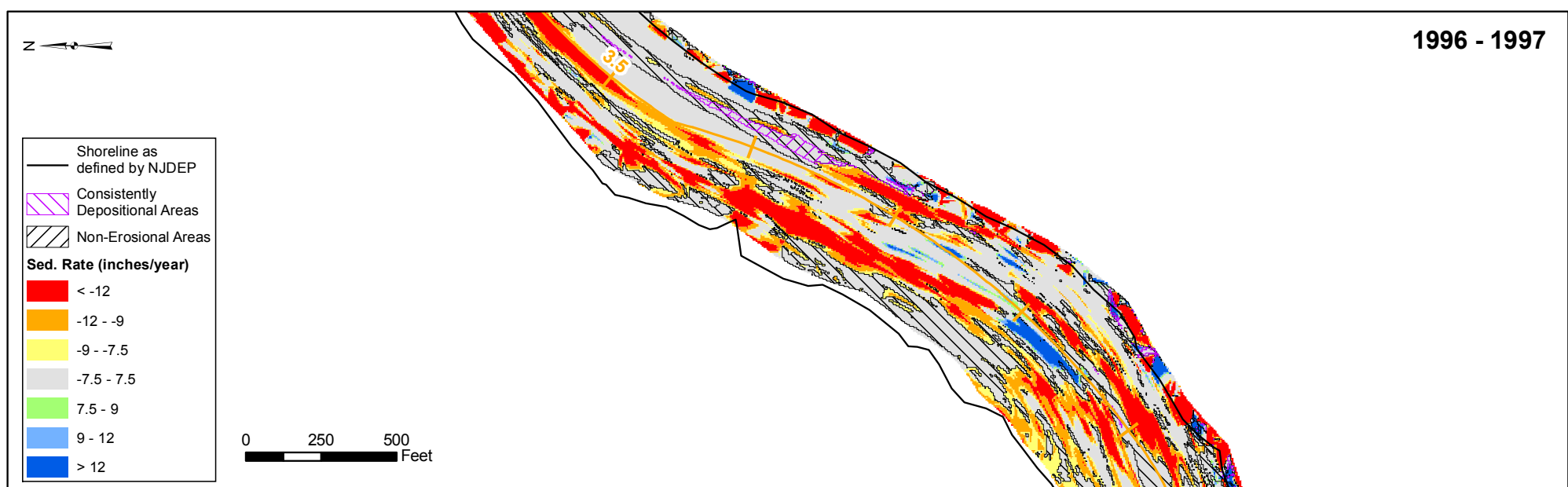
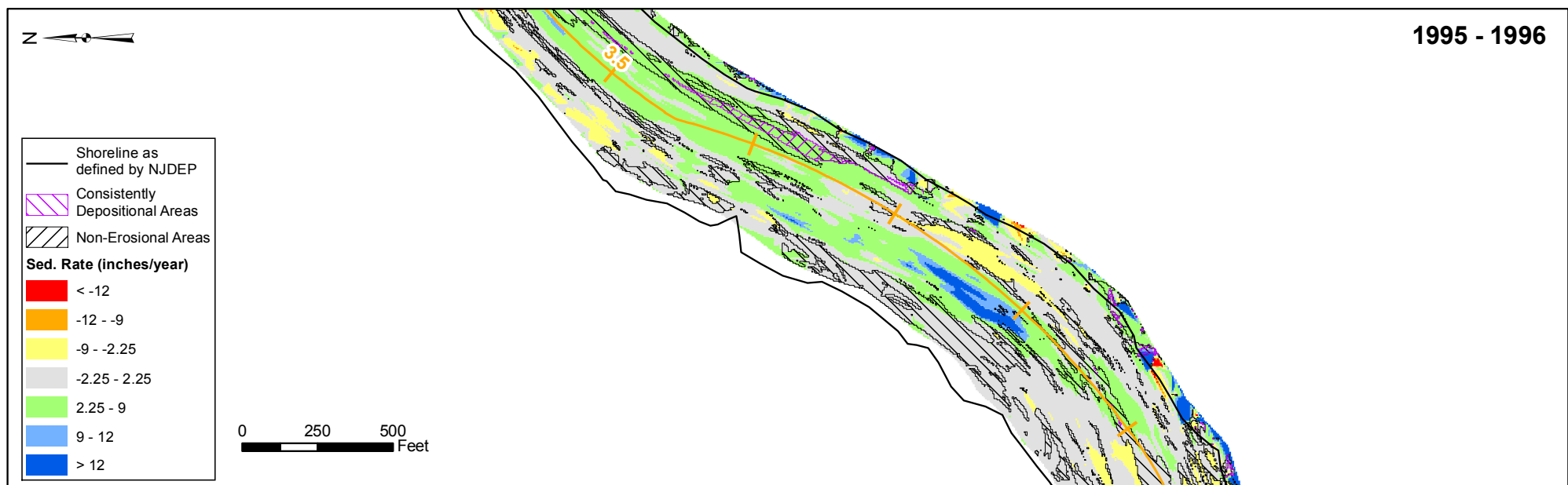


Figure 11- 4d



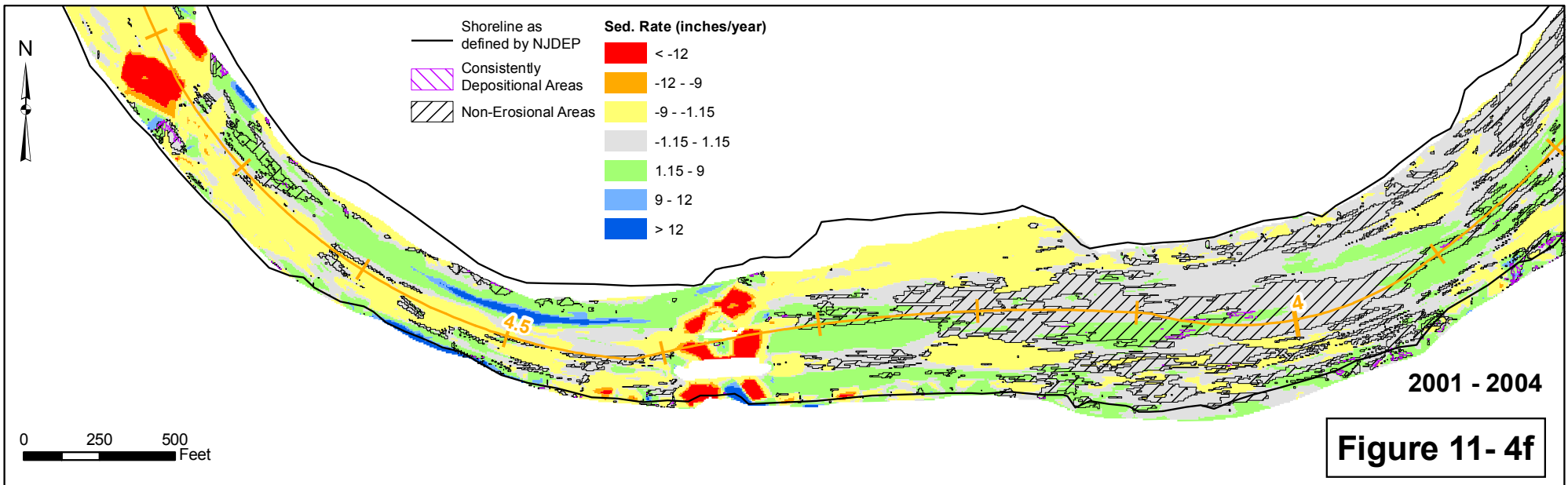
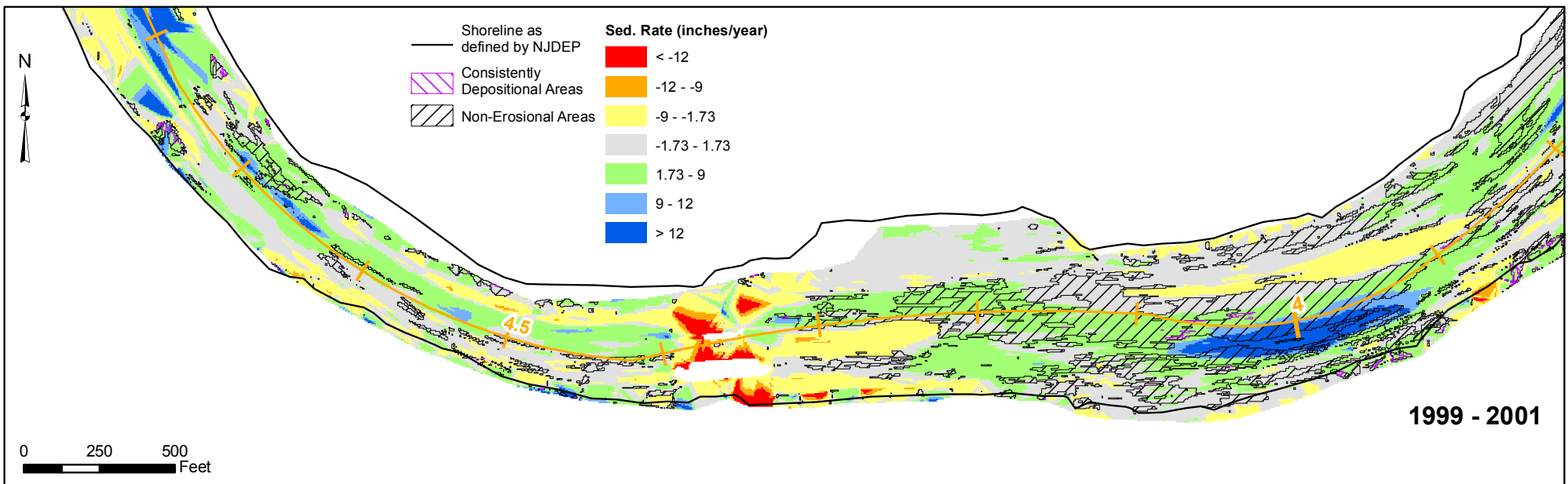
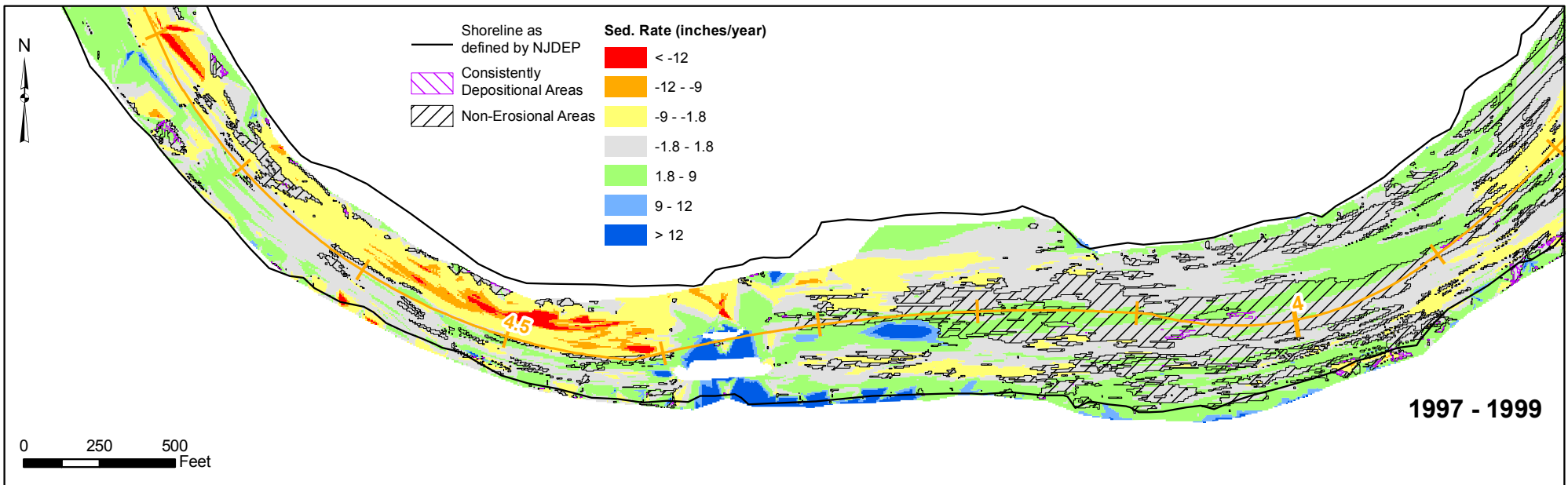
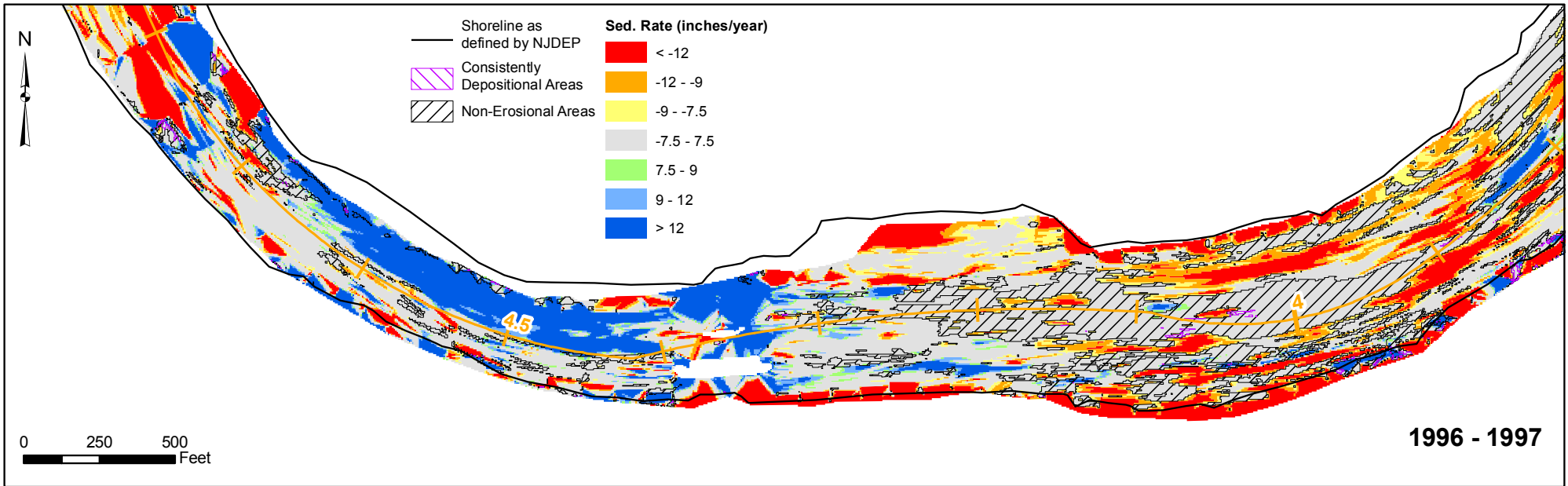
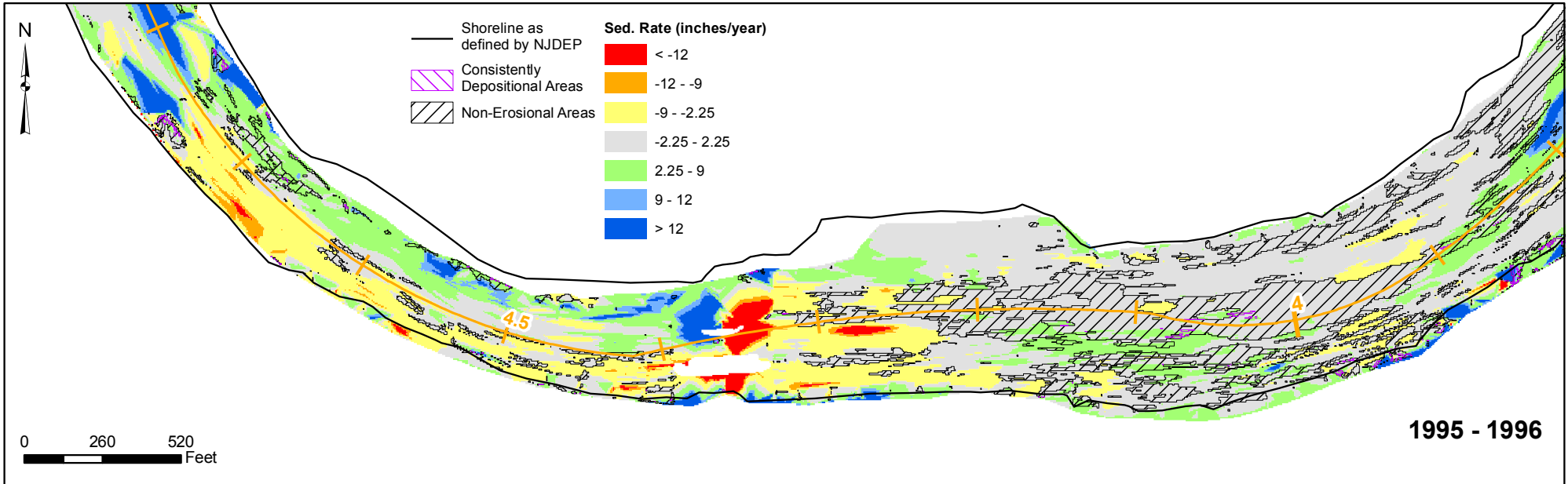
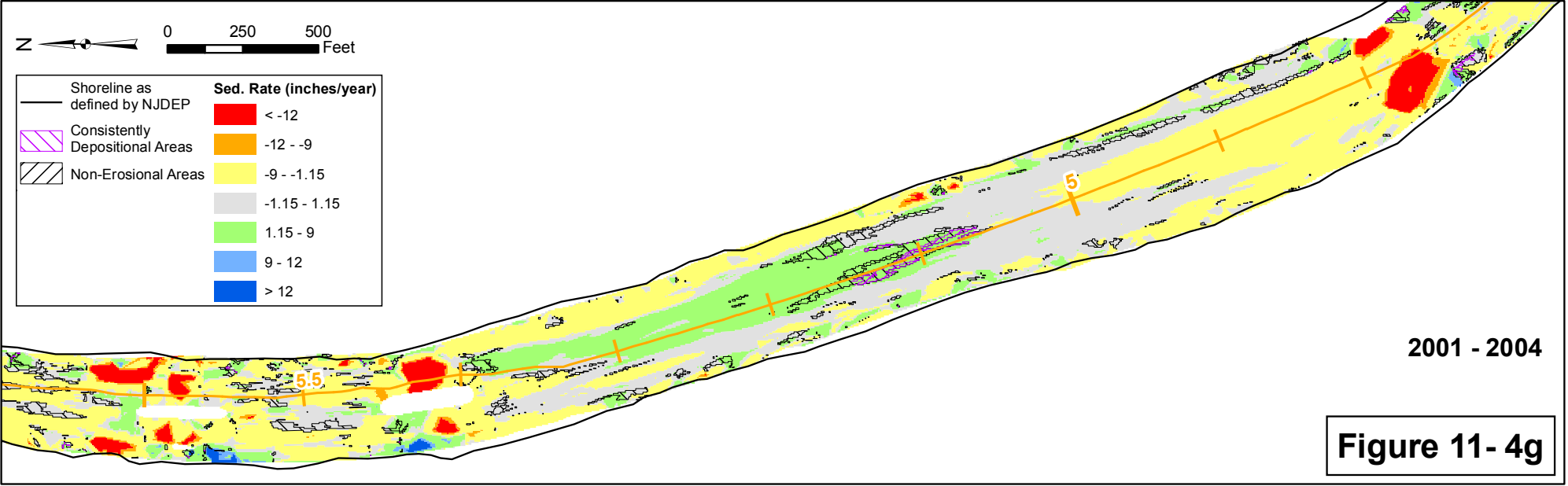
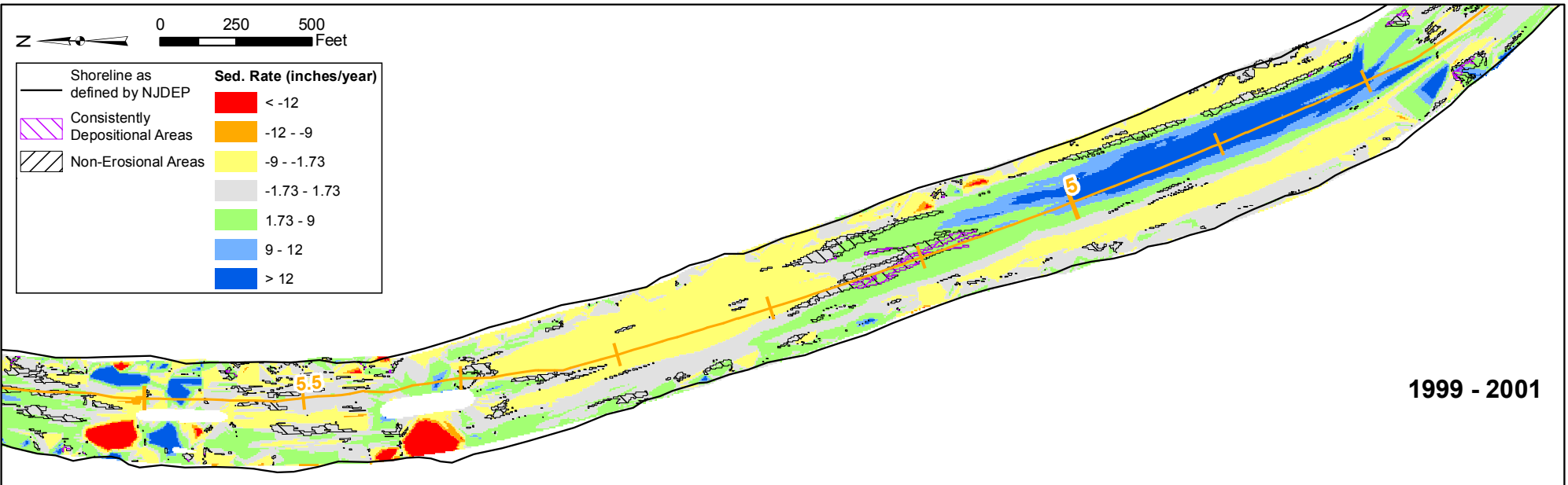
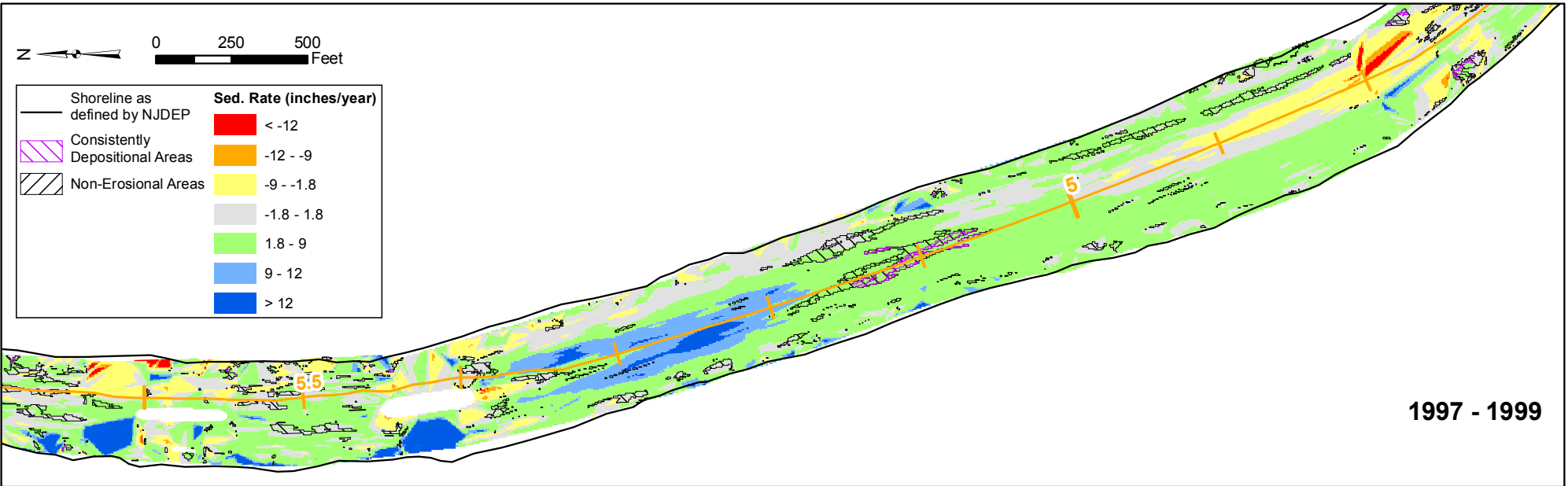
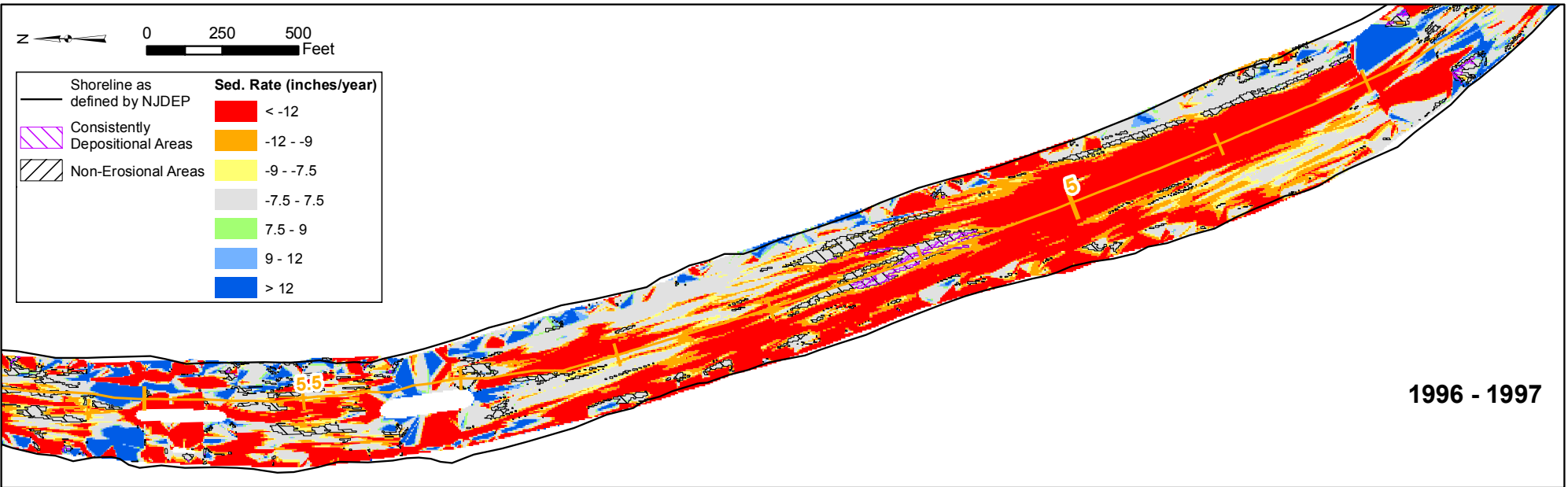
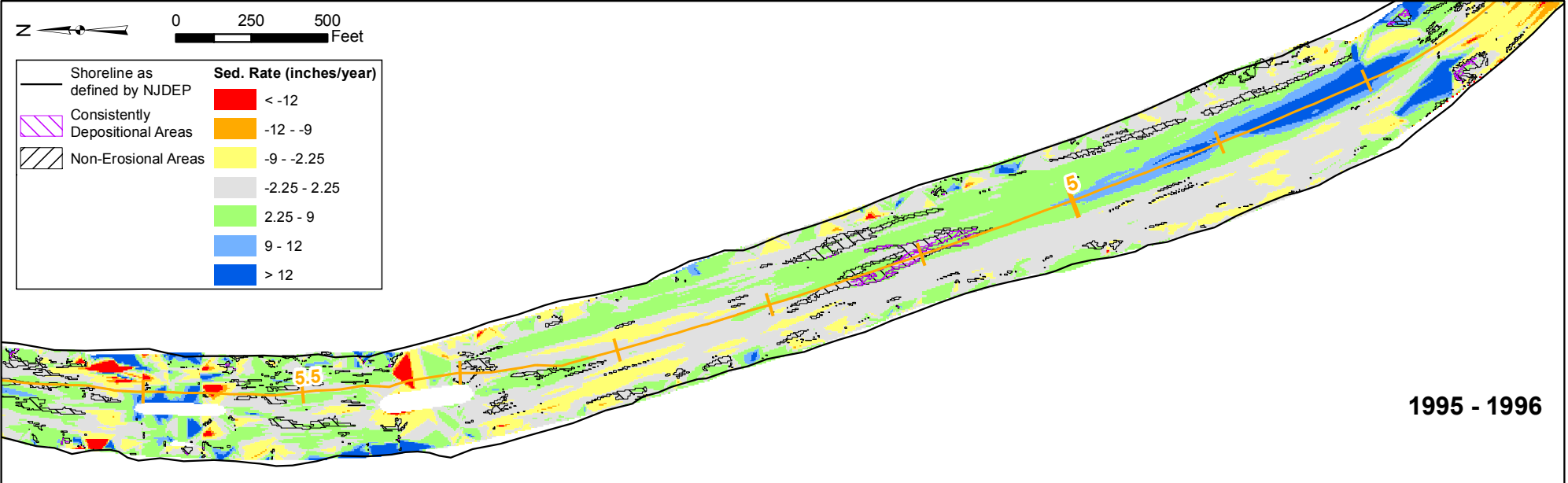


Figure 11- 4f



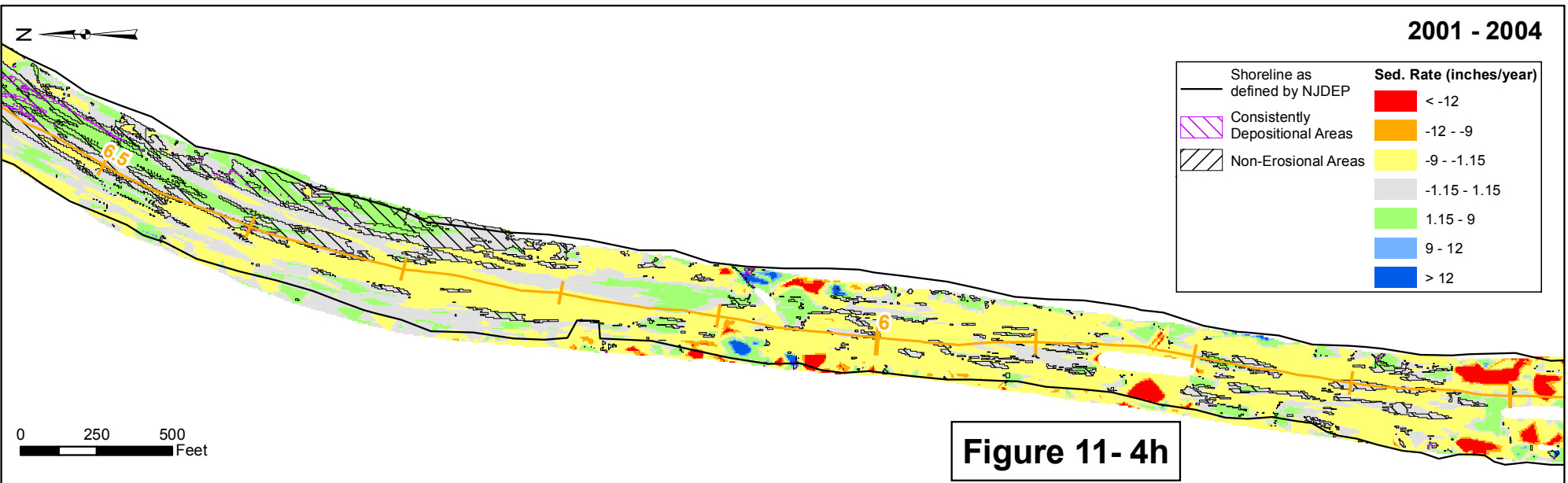
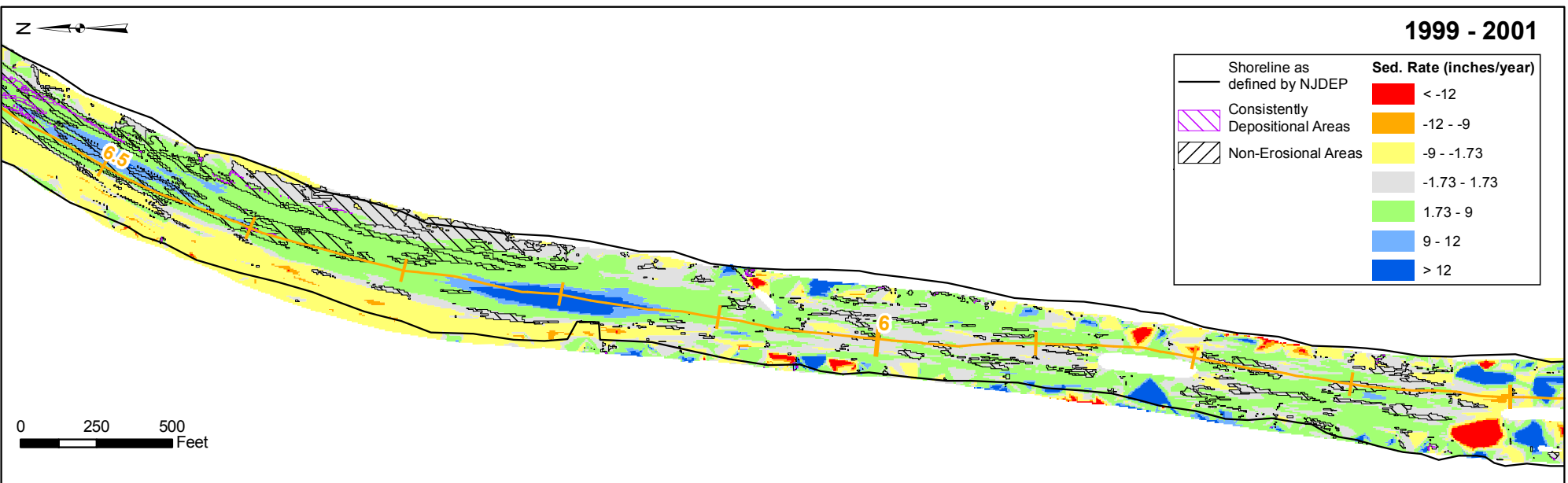
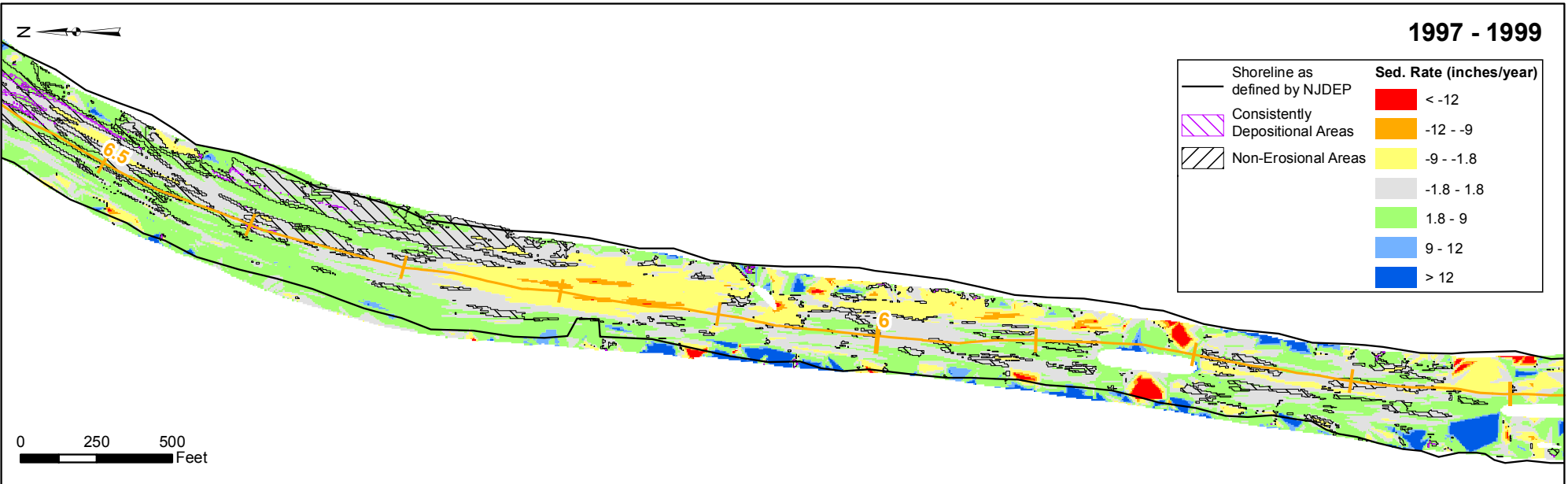
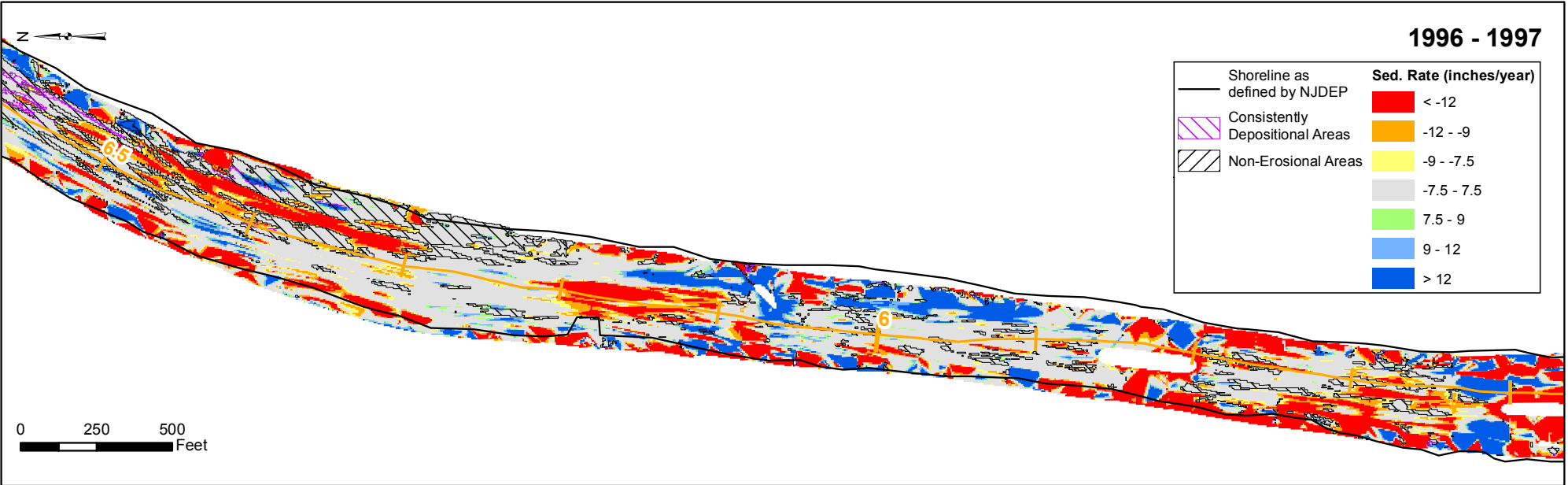
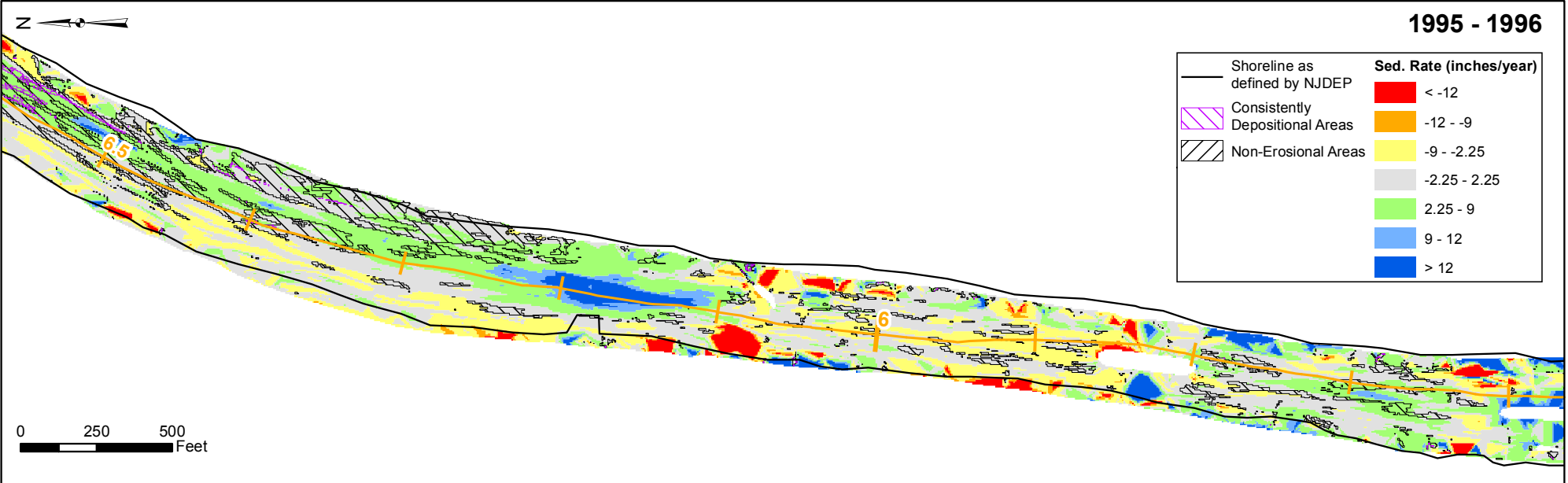


Figure 11- 4h

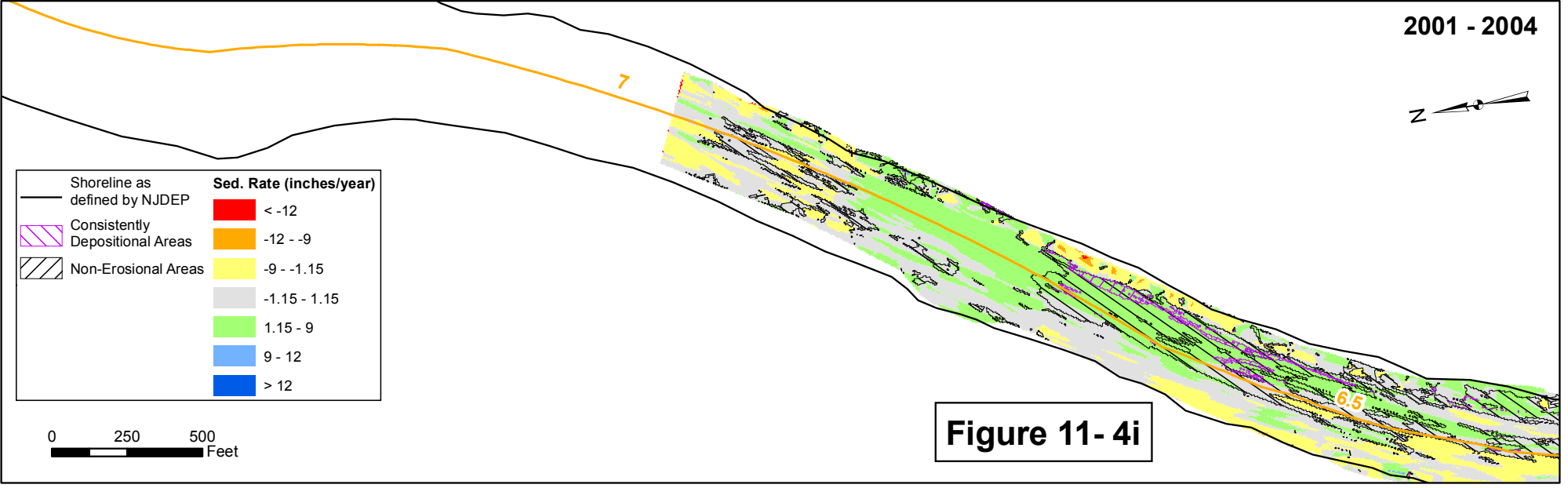
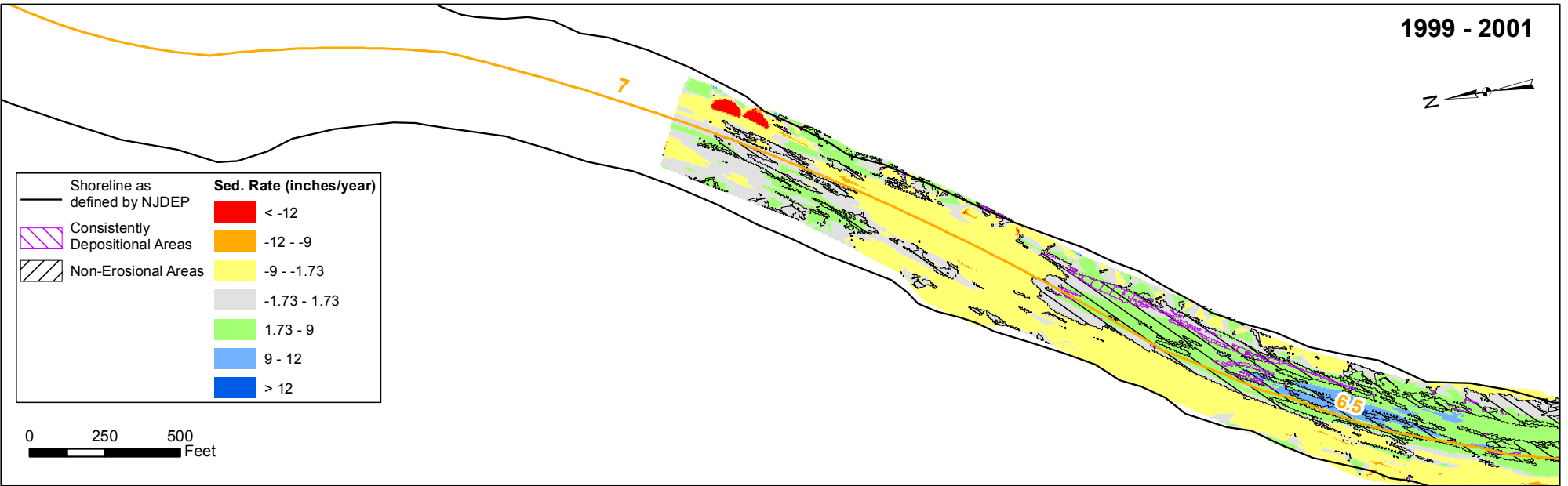
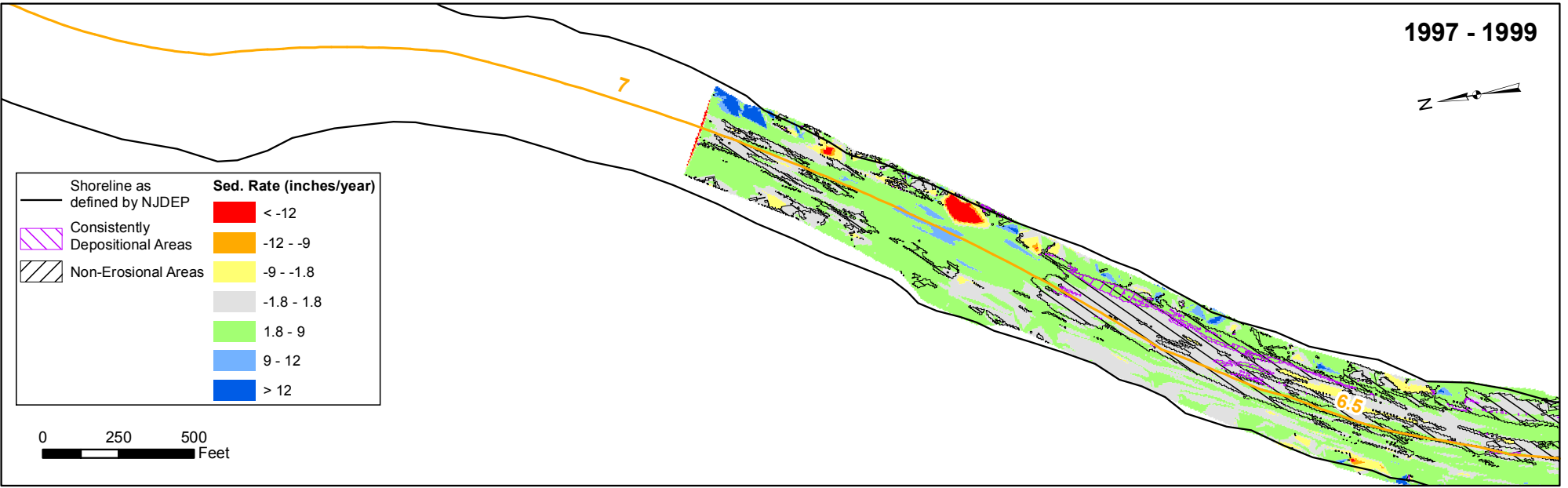
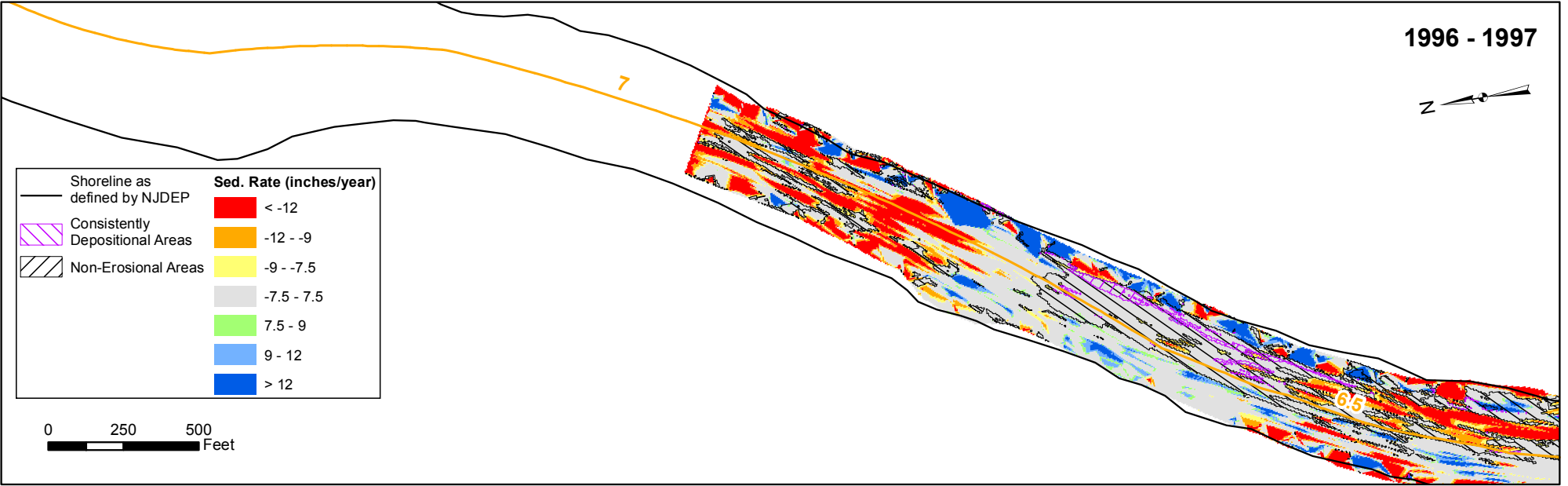
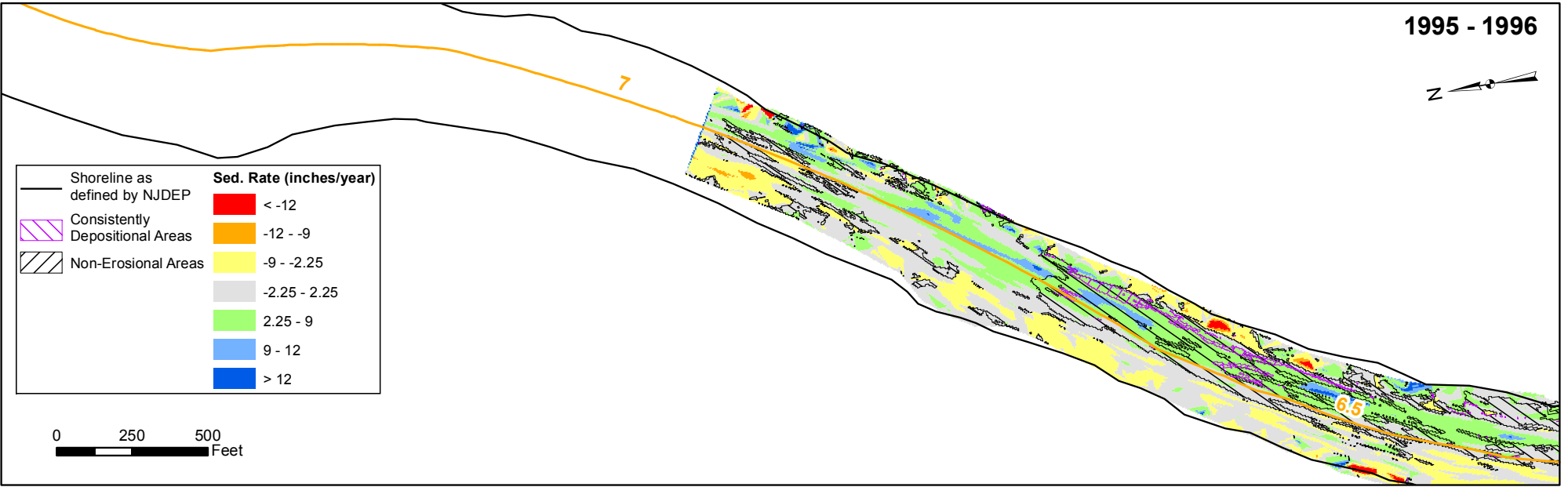
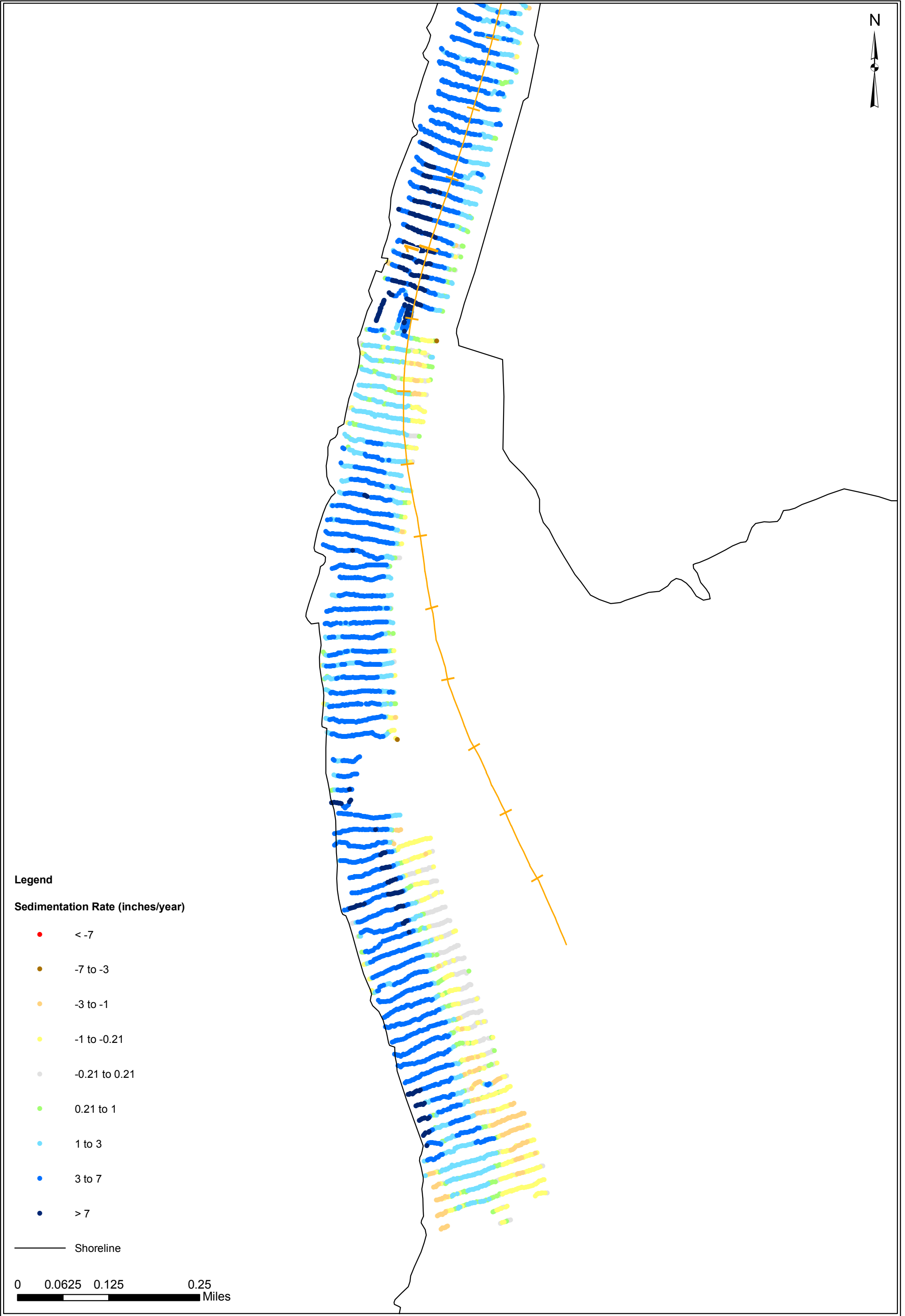
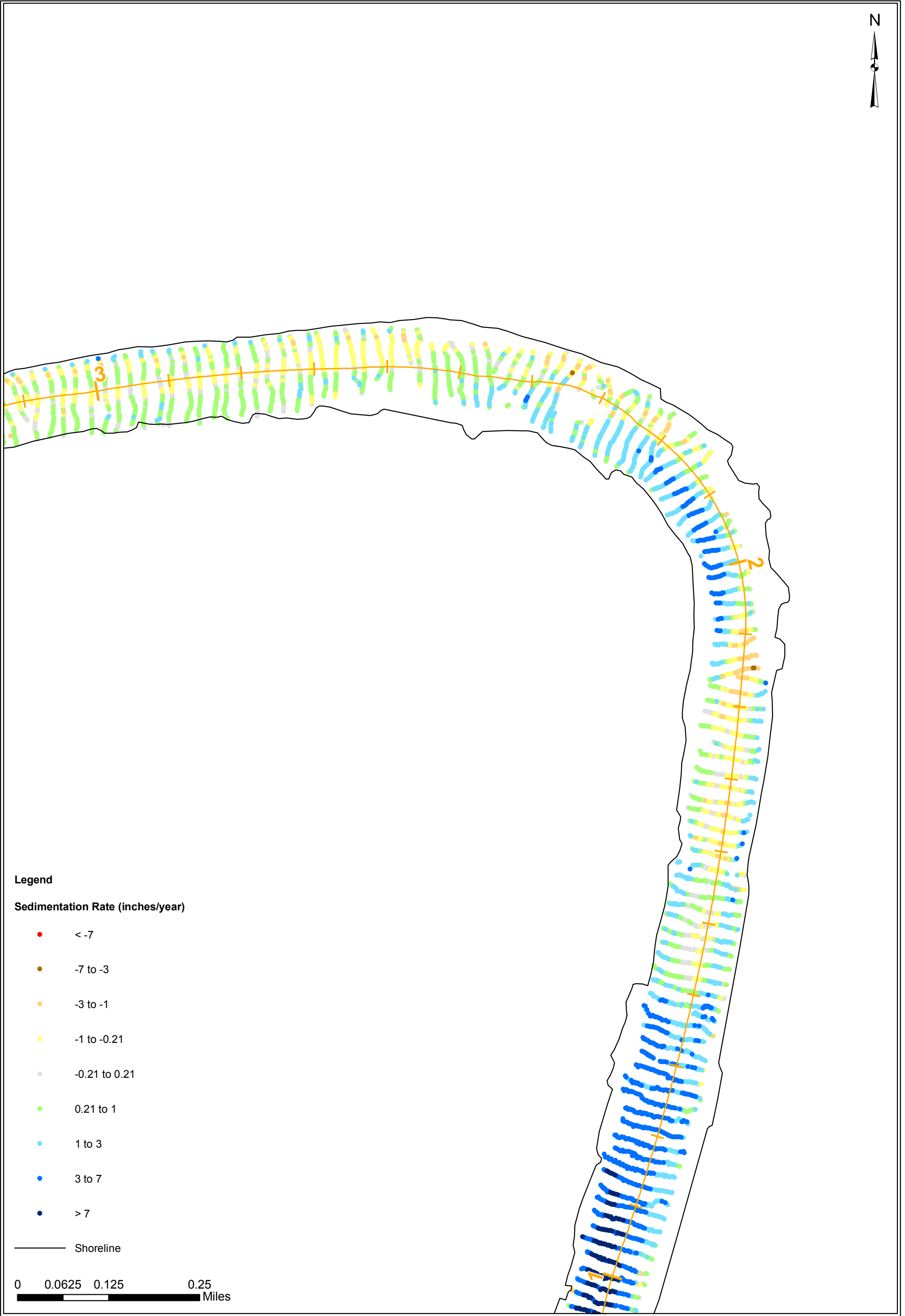
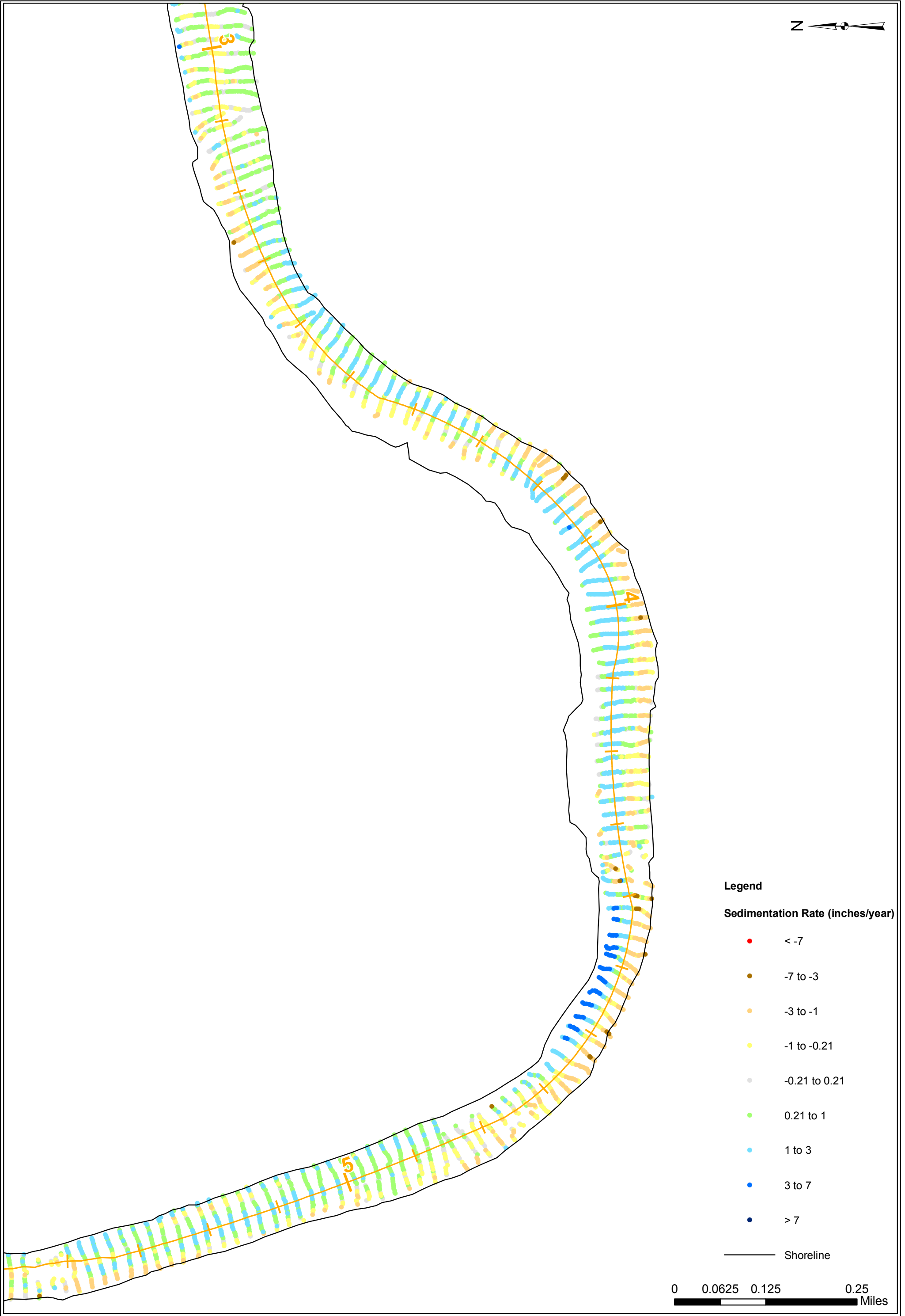
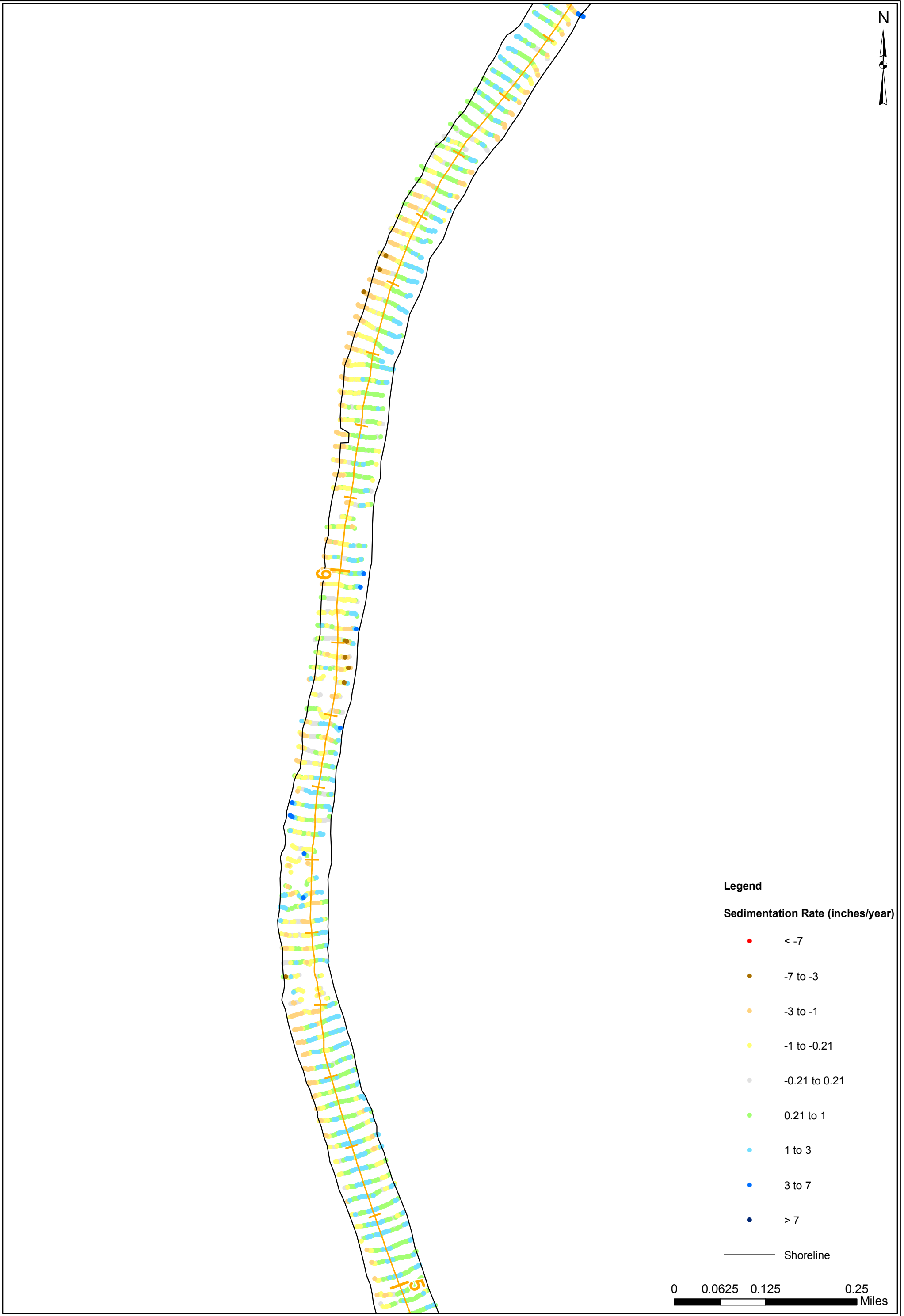


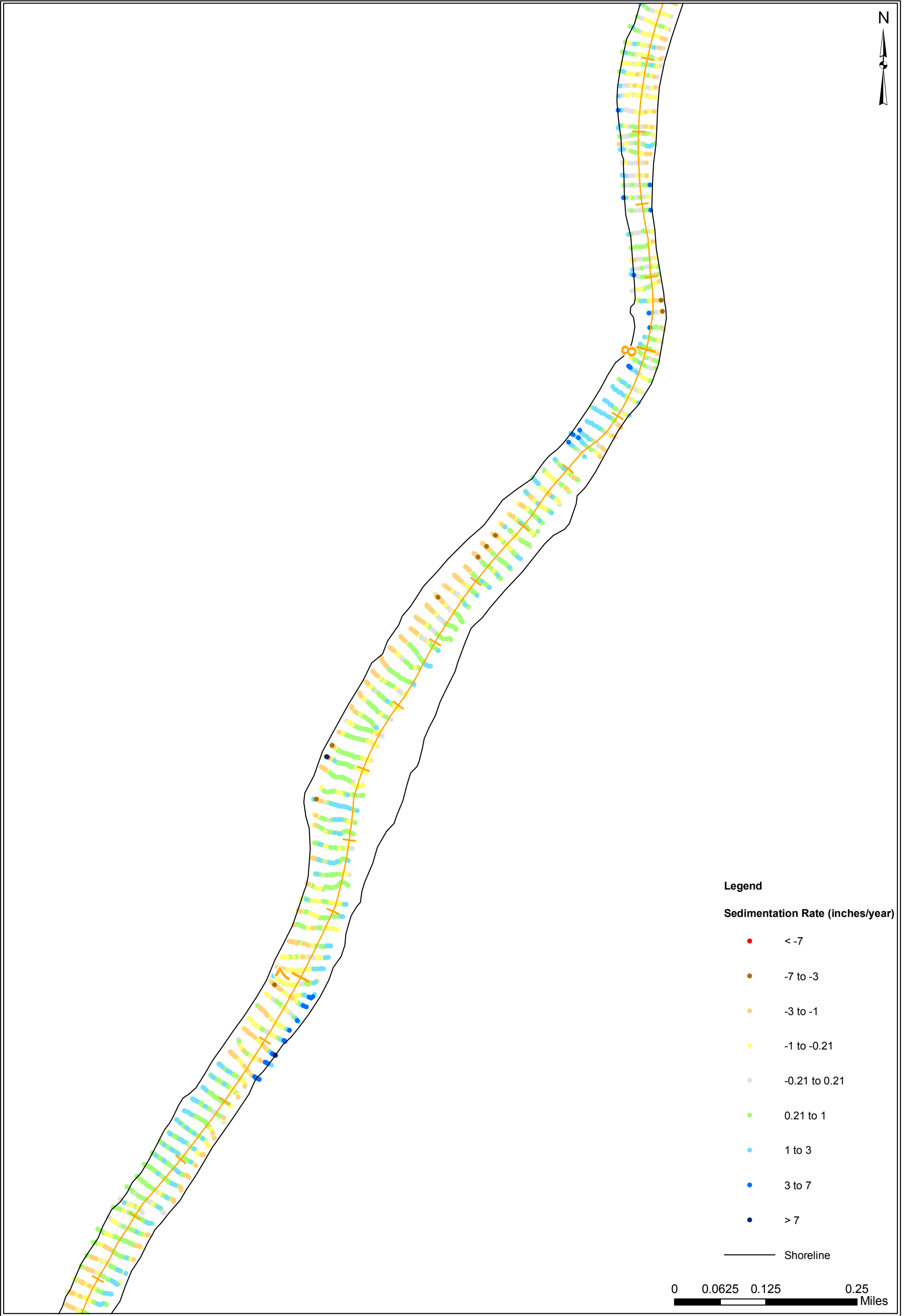
Figure 11- 4i





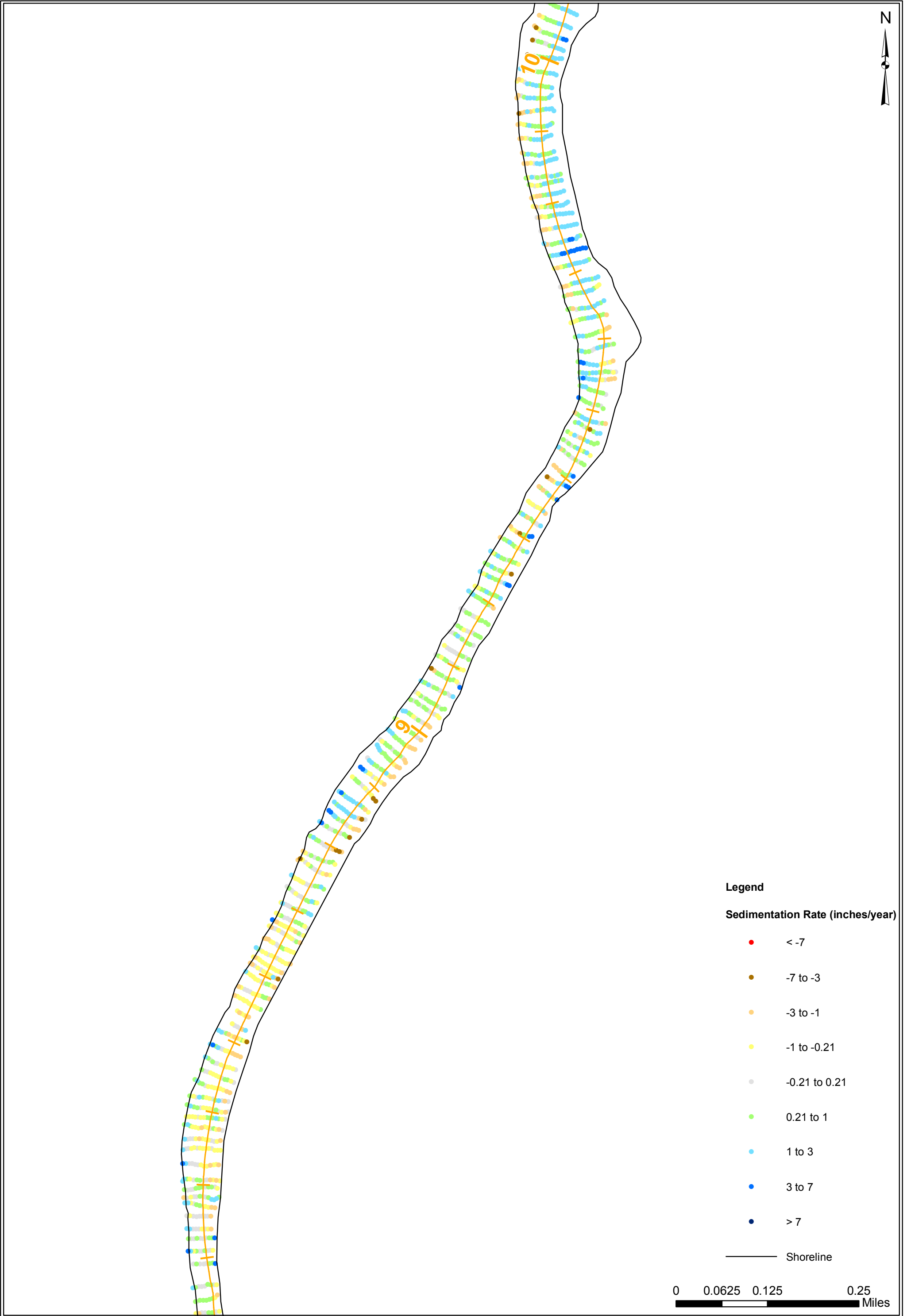






Sedimentation Rate 1989 - 2007

Lower Passaic River Restoration Project



Sedimentation Rate 1989 - 2007

Lower Passaic River Restoration Project

Figure 11 - 5f

September 2008



Sedimentation Rate 1989 - 2007

Lower Passaic River Restoration Project

Figure 11 - 5g

September 2008



Sedimentation Rate 1989 - 2007

Lower Passaic River Restoration Project

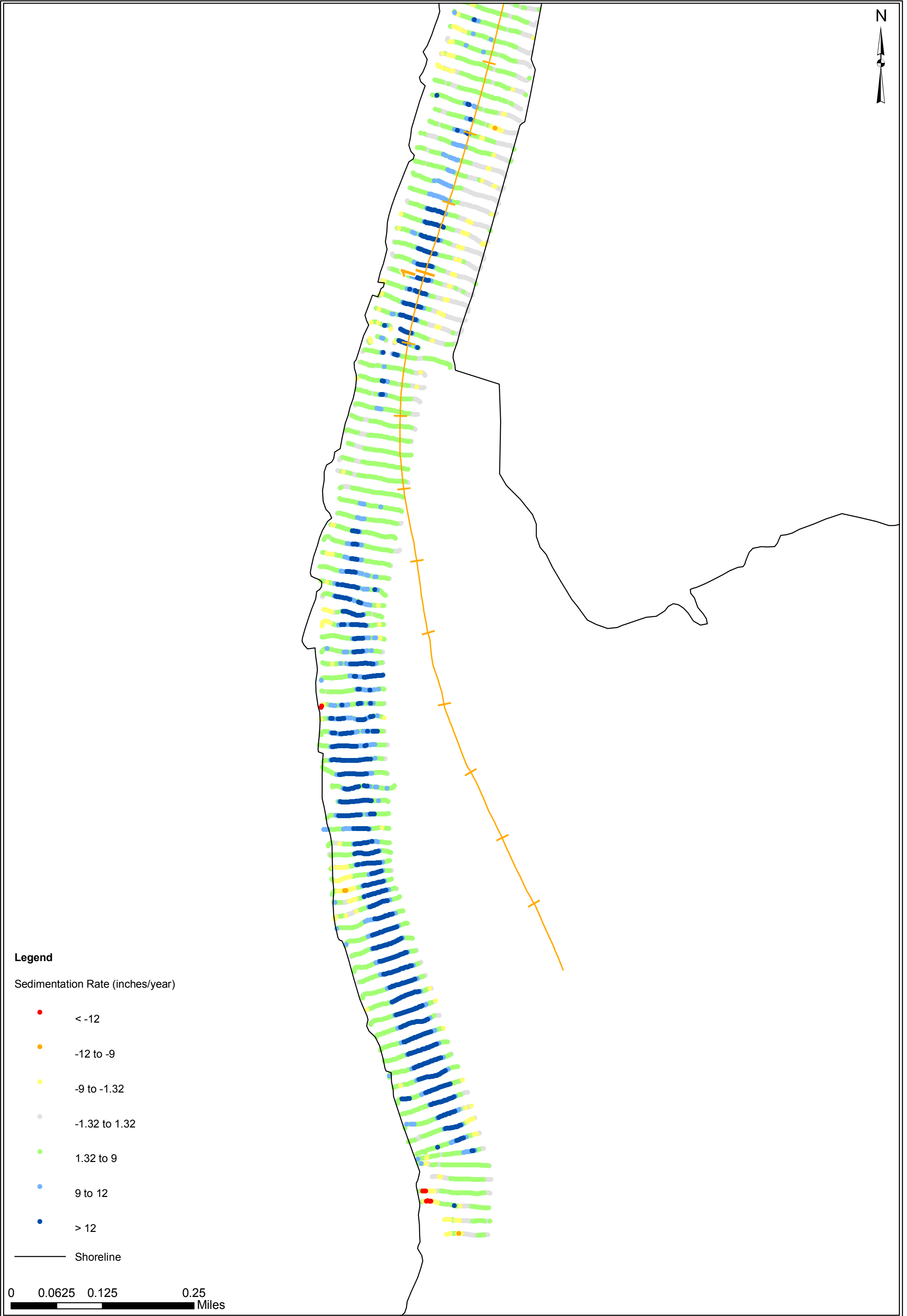
Figure 11 - 5h

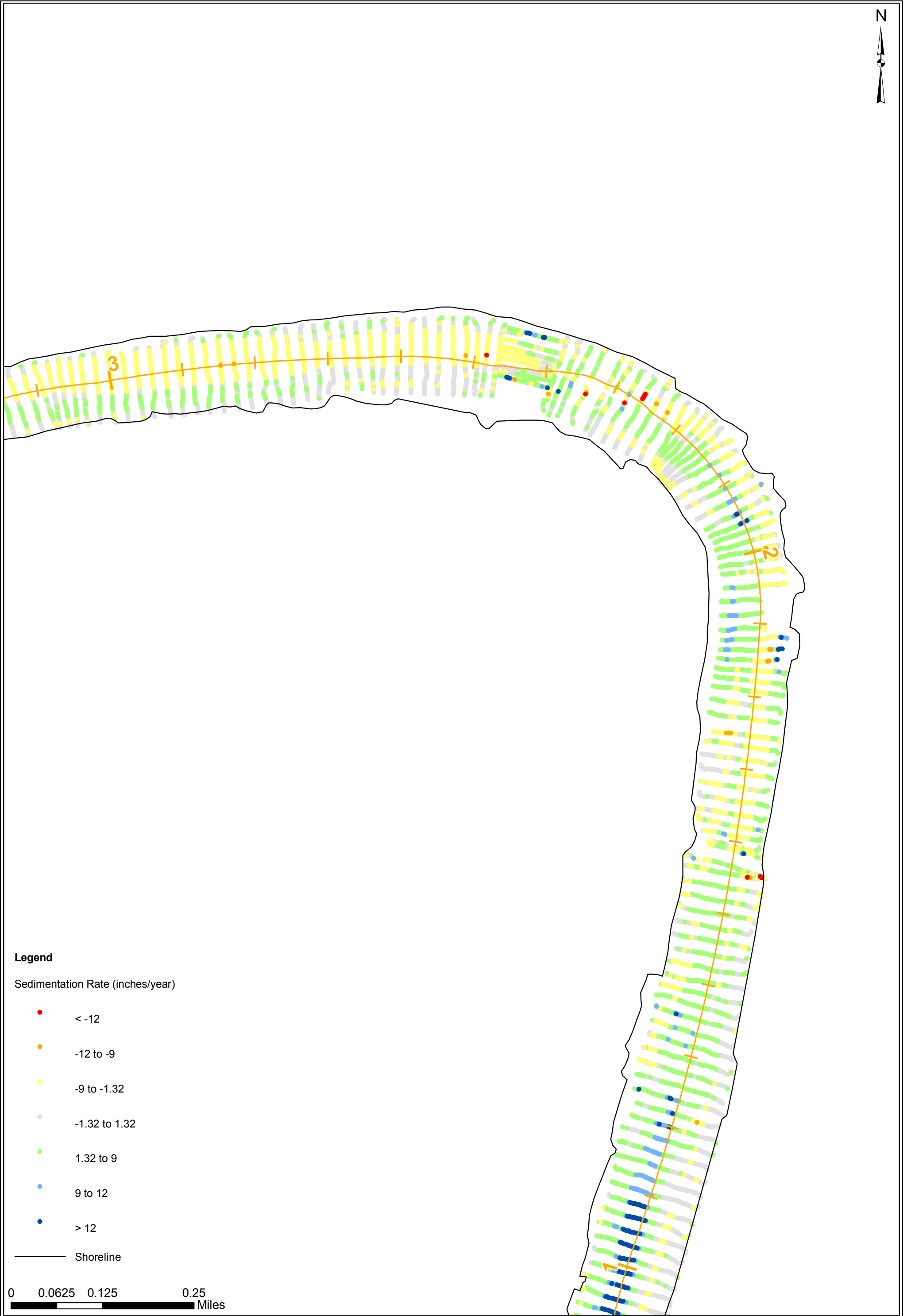
September 2008

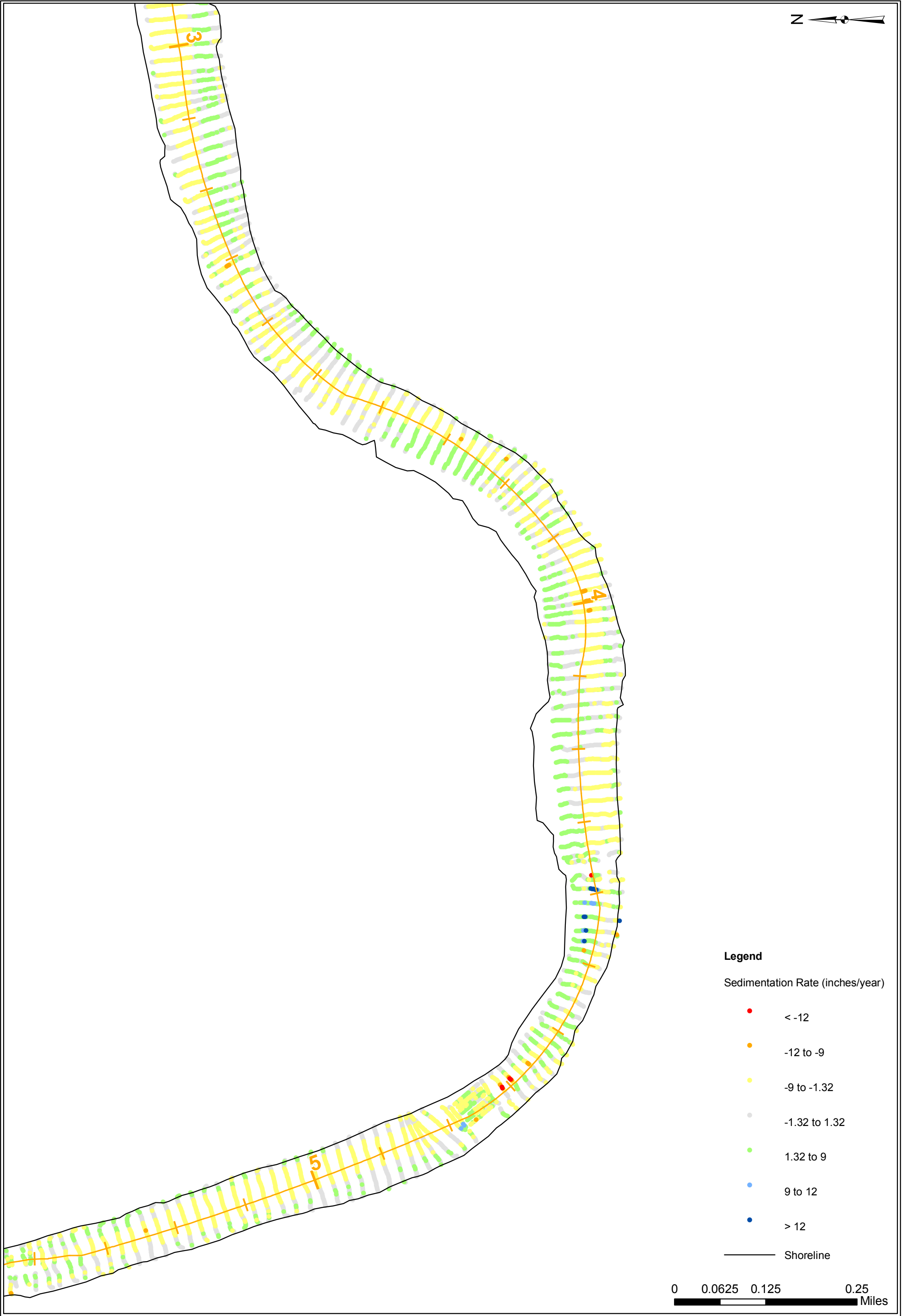


Sedimentation Rate 1989 - 2007

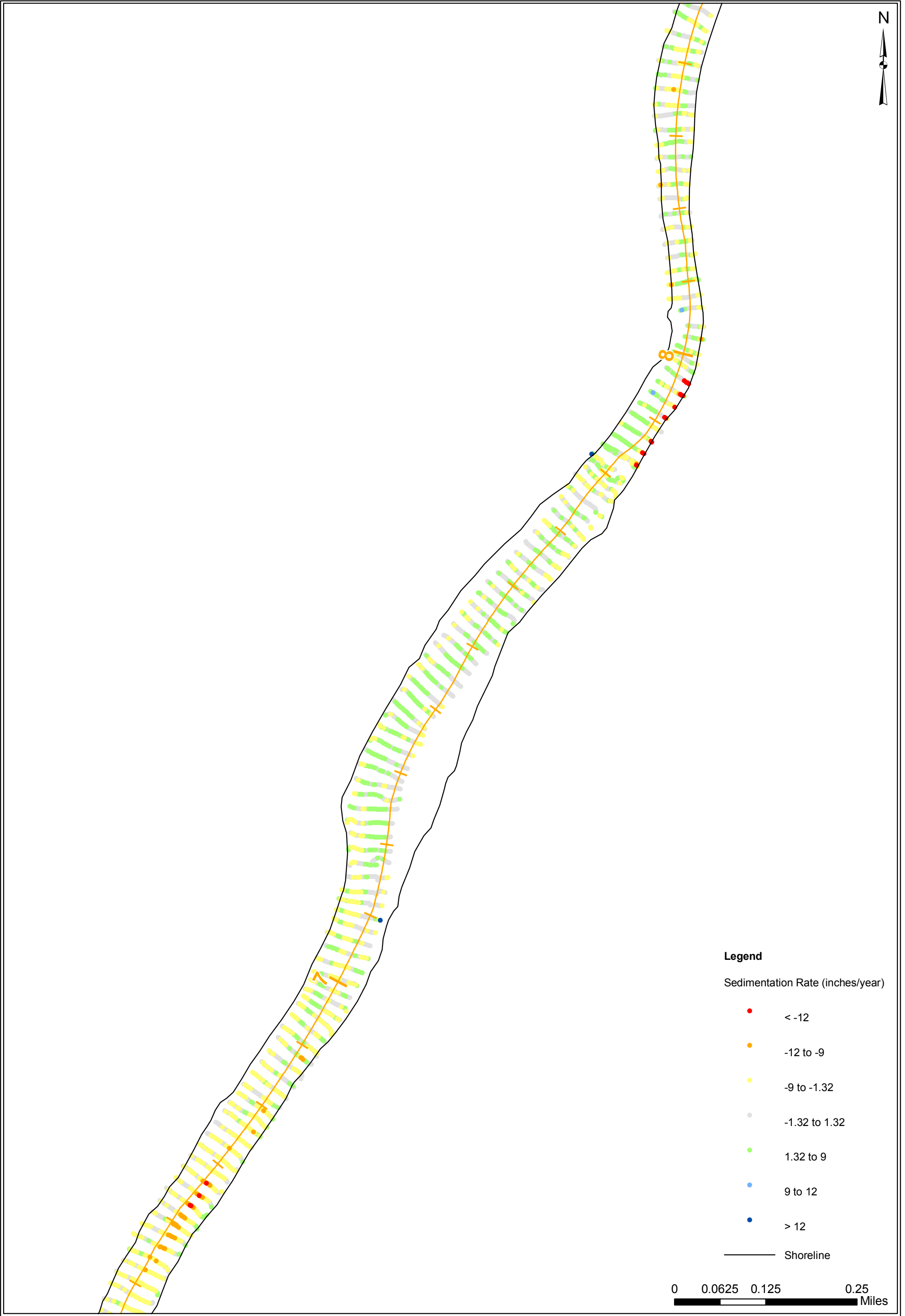
Lower Passaic River Restoration Project











Sedimentation Rate 2004 - 2007

Lower Passaic River Restoration Project

Figure 11 - 6e

September 2008



Sedimentation Rate 2004 - 2007

Lower Passaic River Restoration Project

Figure 11 - 6f

September 2008



Legend

Sedimentation Rate (inches/year)

●	< -12
●	-12 to -9
●	-9 to -1.32
●	-1.32 to 1.32
●	1.32 to 9
●	9 to 12
●	> 12
—	Shoreline

0 0.0625 0.125 0.25 Miles



Sedimentation Rate 2004 - 2007

Lower Passaic River Restoration Project

Figure 11 - 6g

September 2008



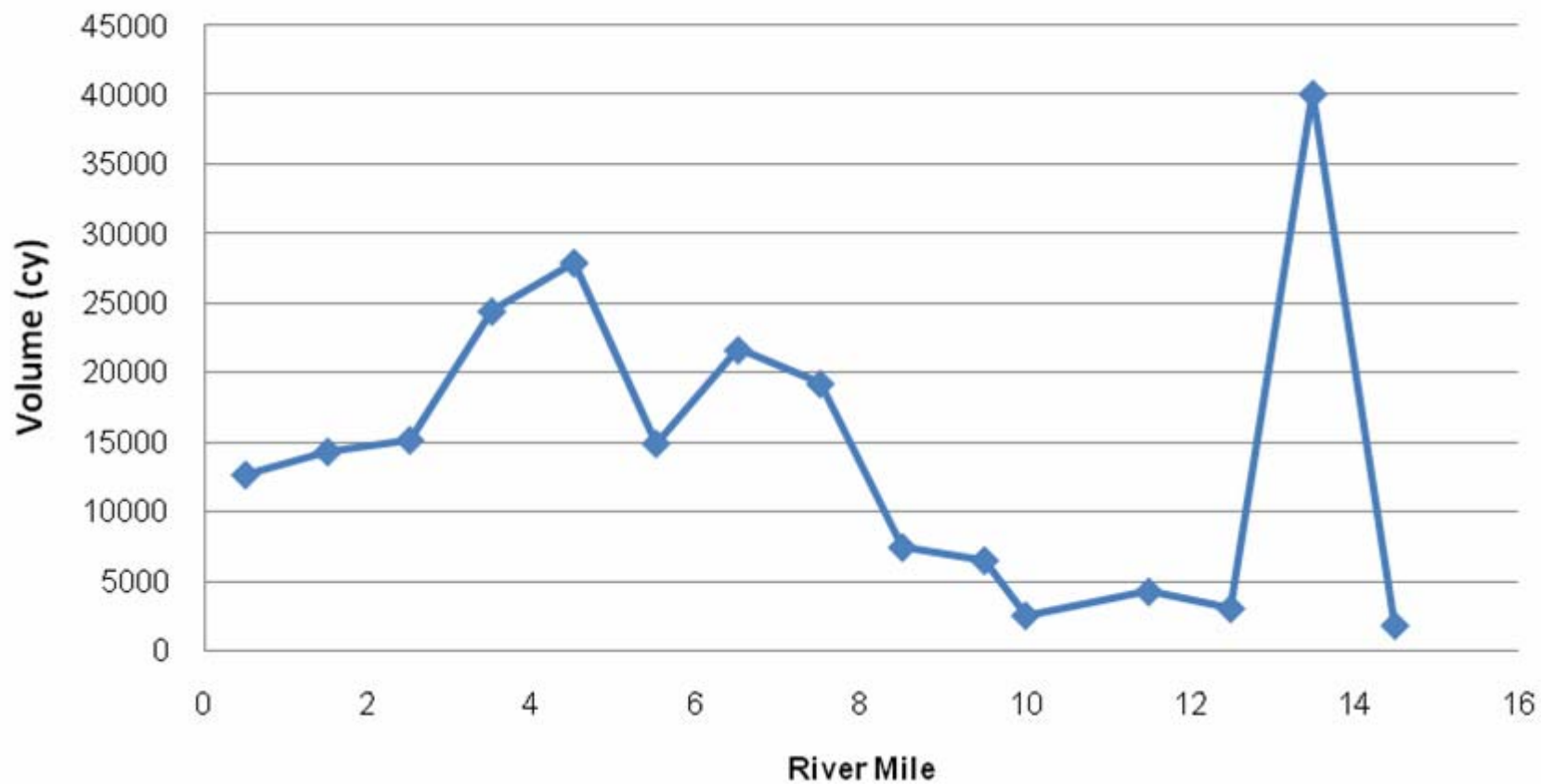
Sedimentation Rate 2004 - 2007

Lower Passaic River Restoration Project



Sedimentation Rate 2004 - 2007

Lower Passaic River Restoration Project

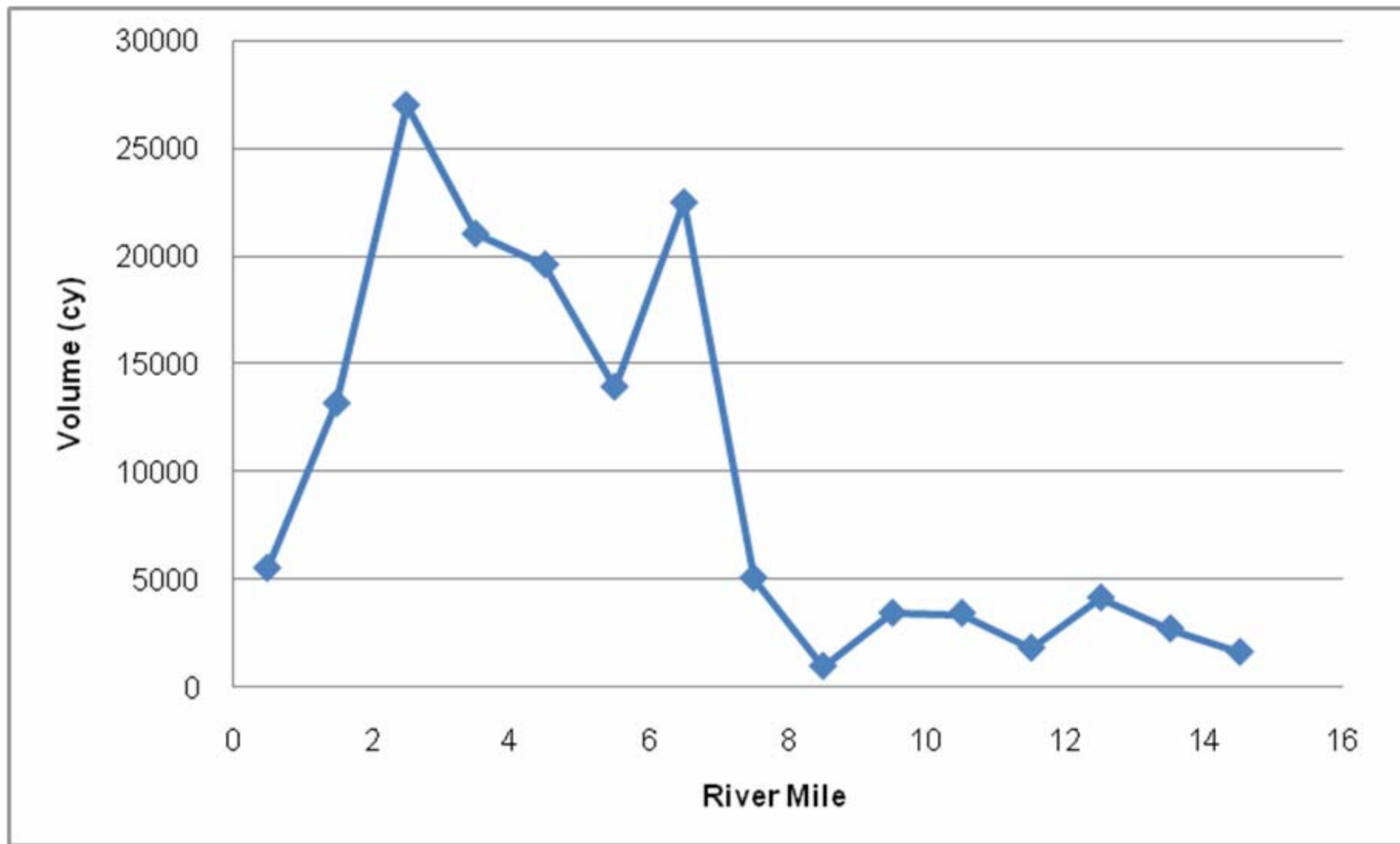


**Fine Grained Sediment Volume Resuspended by River Mile
Scenerio 1, 1989-2007**

Lower Passaic River Restoration Project

Figure 11-7

September 2008

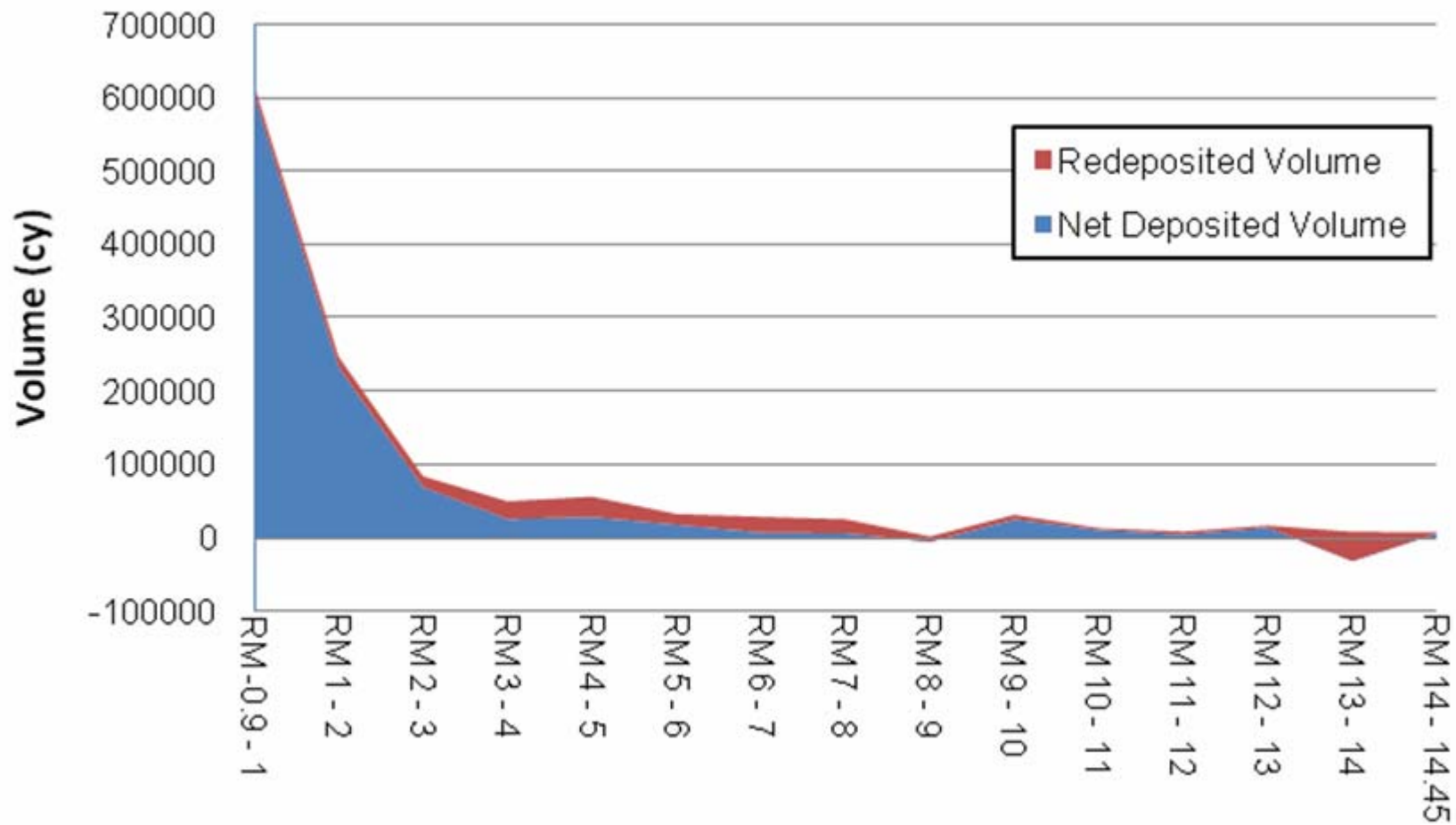


**Fine Grained Sediment Volume Resuspended by River Mile
Scenario 1 2004-2007**

Lower Passaic River Restoration Project

Figure 11-8

September 2008

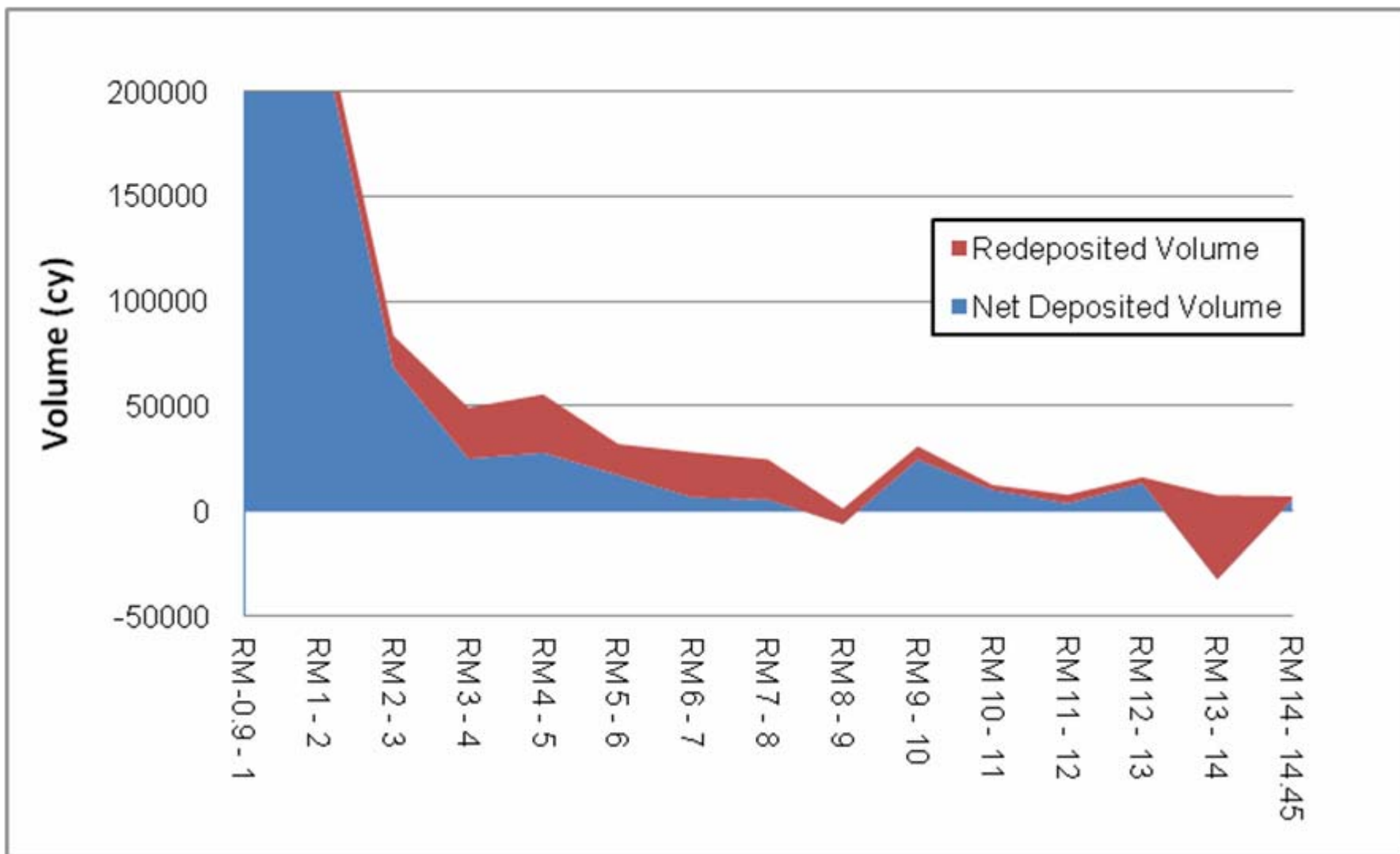


Fine Grained Sediment Deposition
1989 to 2007

Lower Passaic River Restoration Project

Figure 11-9

September 2008

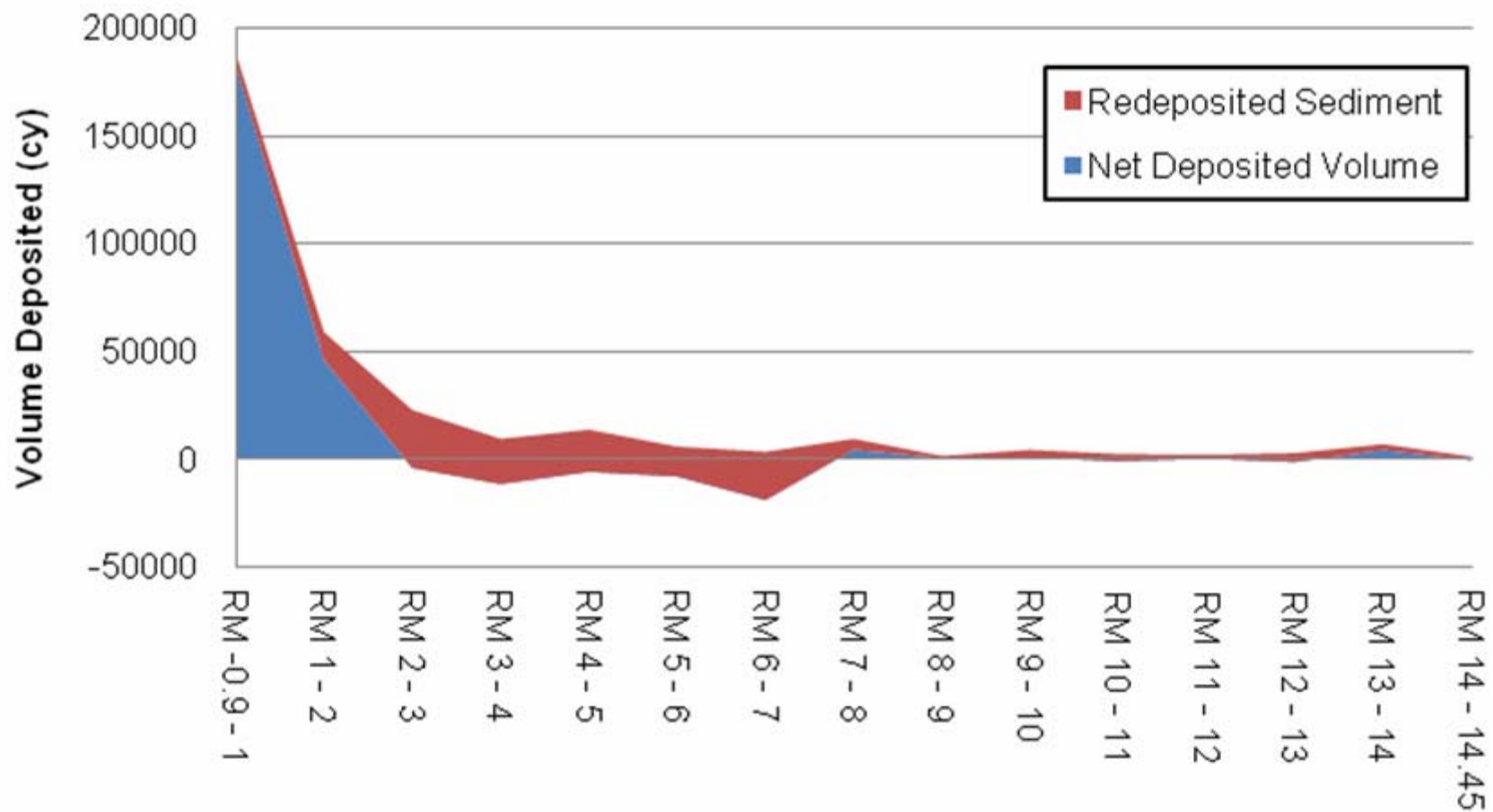


**Fine Grained Sediment Deposition
1989 to 2007- Expanded Scale**

Lower Passaic River Restoration Project

Figure 11-10

September 2008

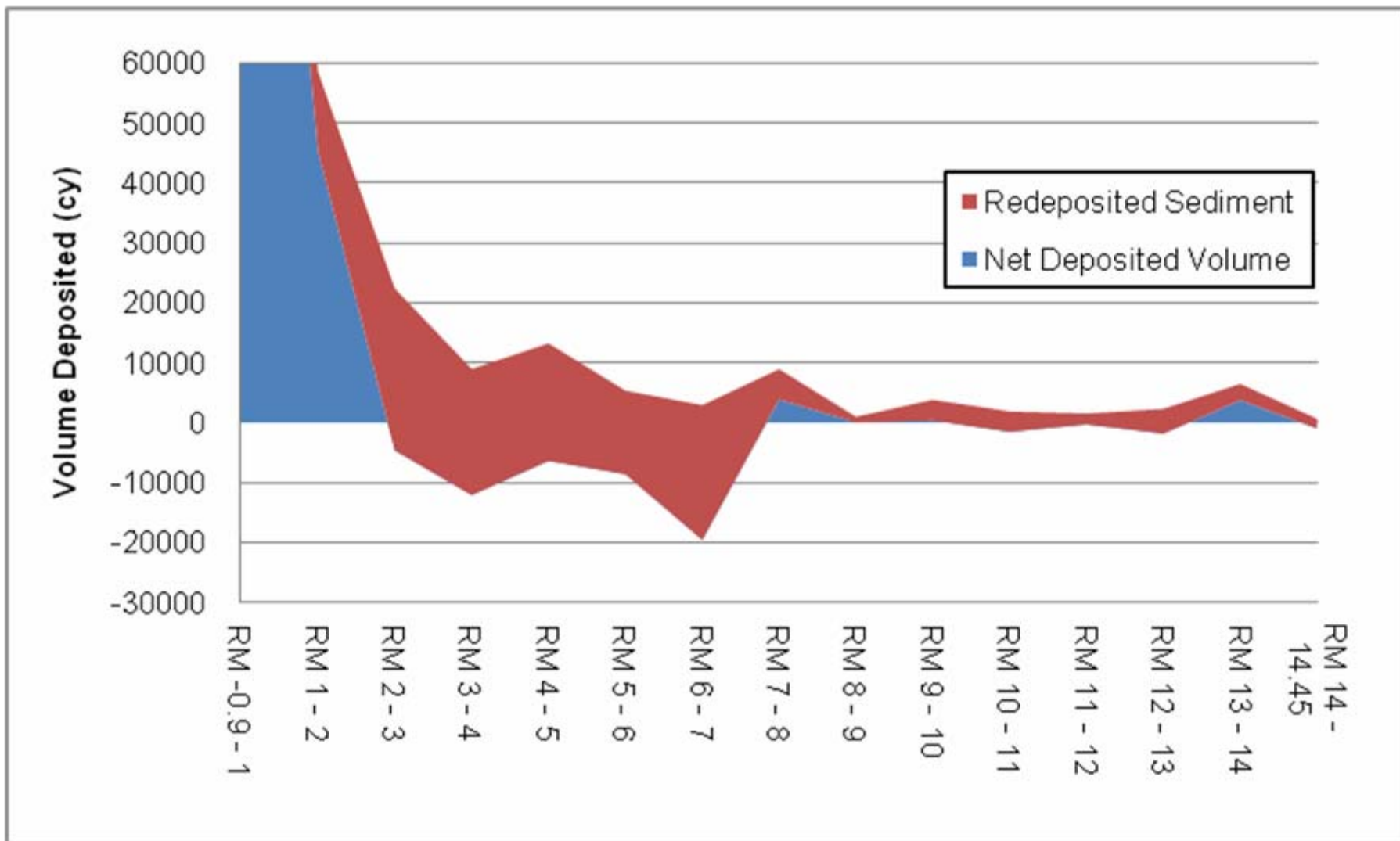


**Fine Grained Sediment Deposition
2004 to 2007**

Lower Passaic River Restoration Project

Figure 11-11

September 2008



**Fine Grained Sediment Deposition
2004 to 2007: Expanded Scale**

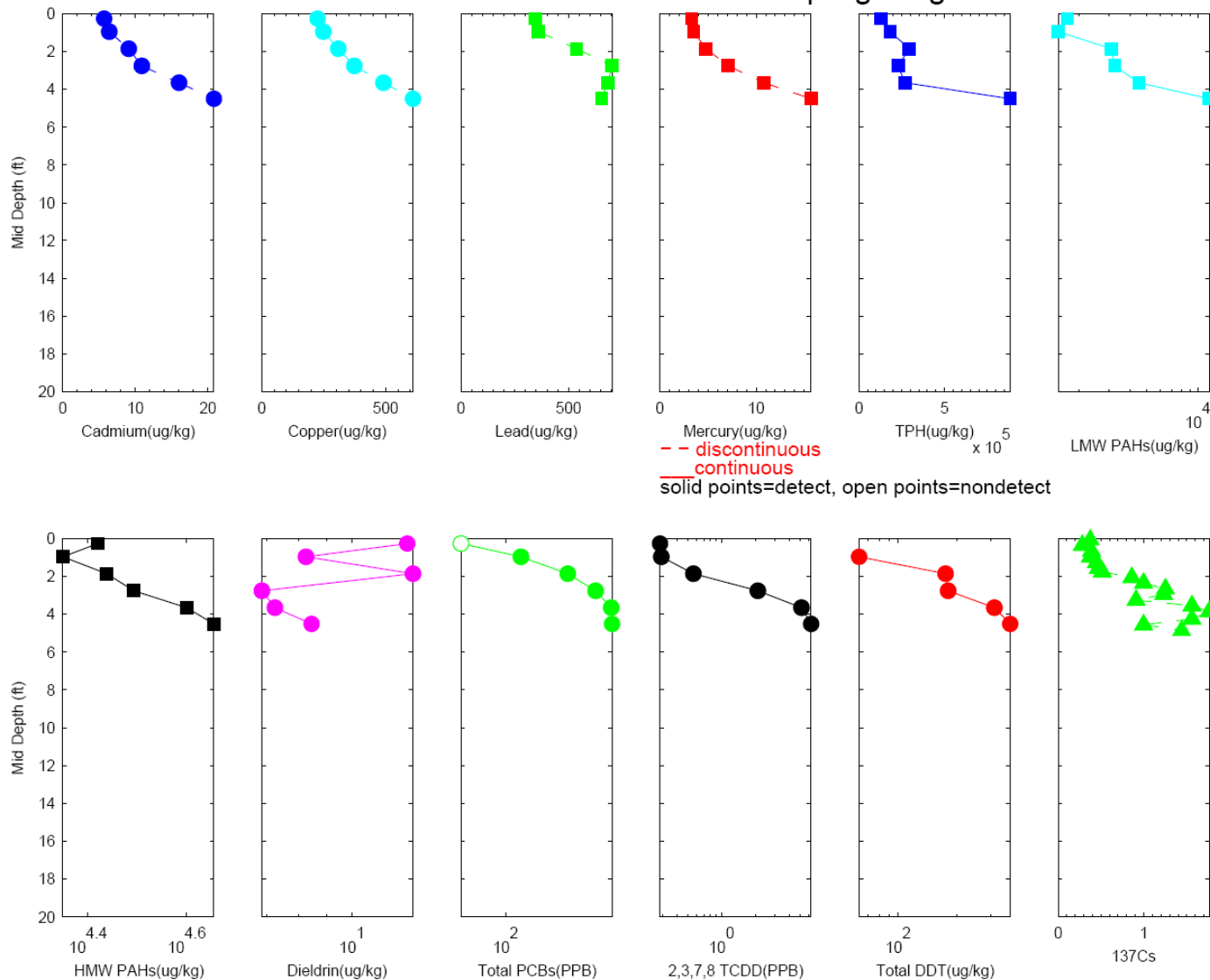
Lower Passaic River Restoration Project

Figure 11-12

September 2008

Sample ID: 229 River Mile 3.08

PASSAIC 1995 RI Sampling Program



Core Classified as Having a Generally Depositional Setting (229)

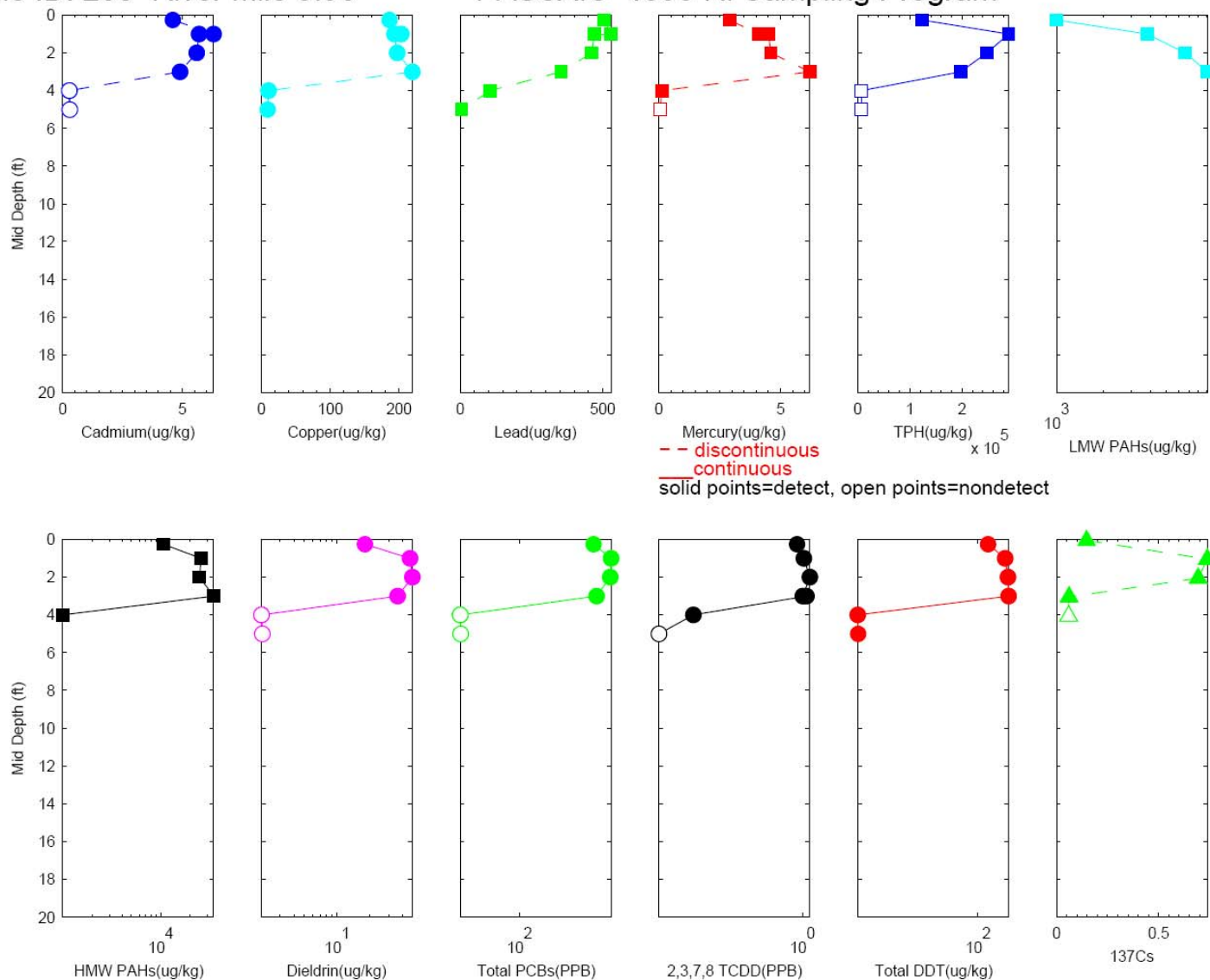
Lower Passaic River Restoration Project

Figure 11-13

September 2008

Sample ID: 268 River Mile 5.96

PASSAIC 1995 RI Sampling Program



Core Classified as Recently Depositional (268)

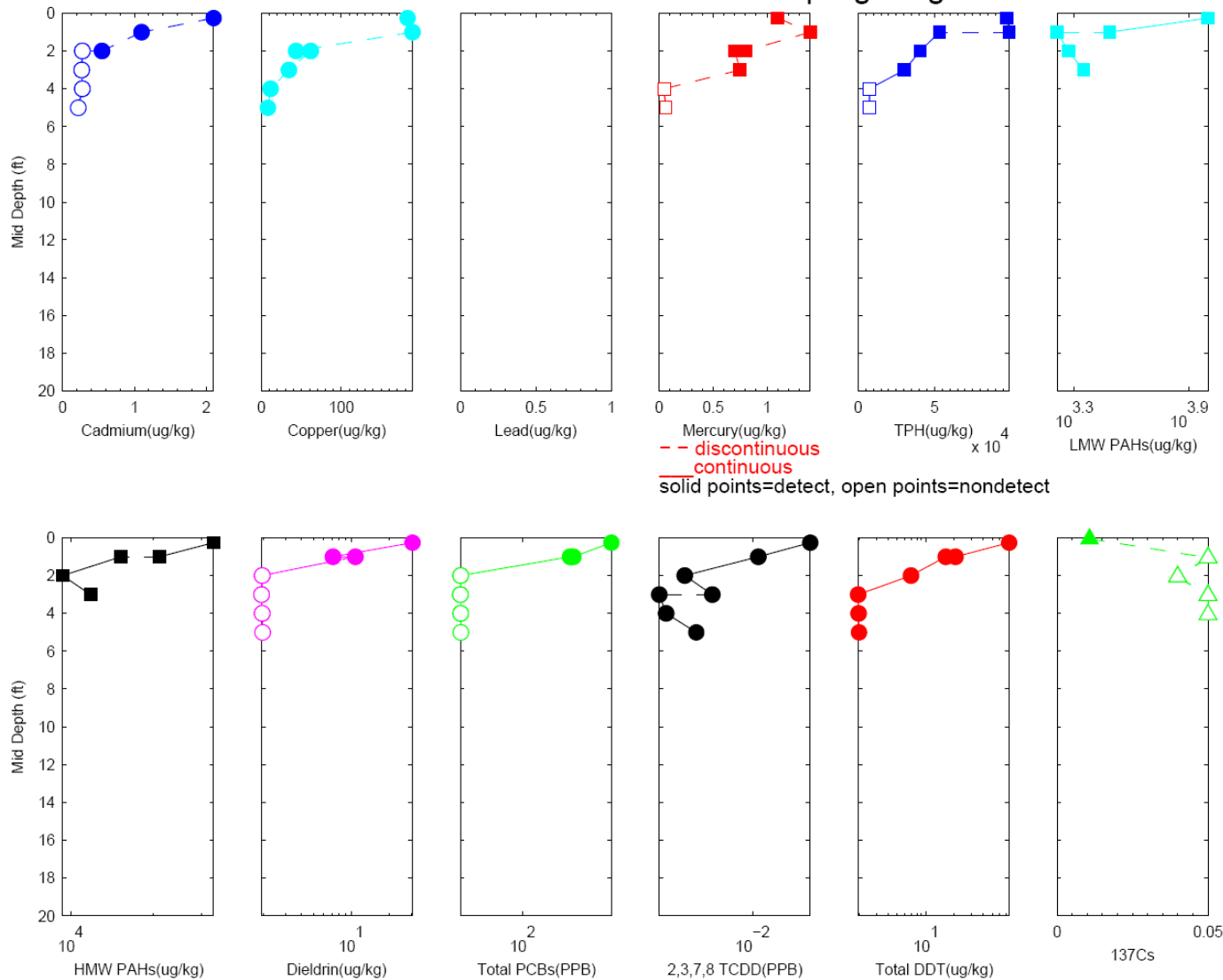
Lower Passaic River Restoration Project

Figure 11-14

September 2008

Sample ID: 264 River Mile 5.74

PASSAIC 1995 RI Sampling Program



Core Classified as Non-Depositional (264)

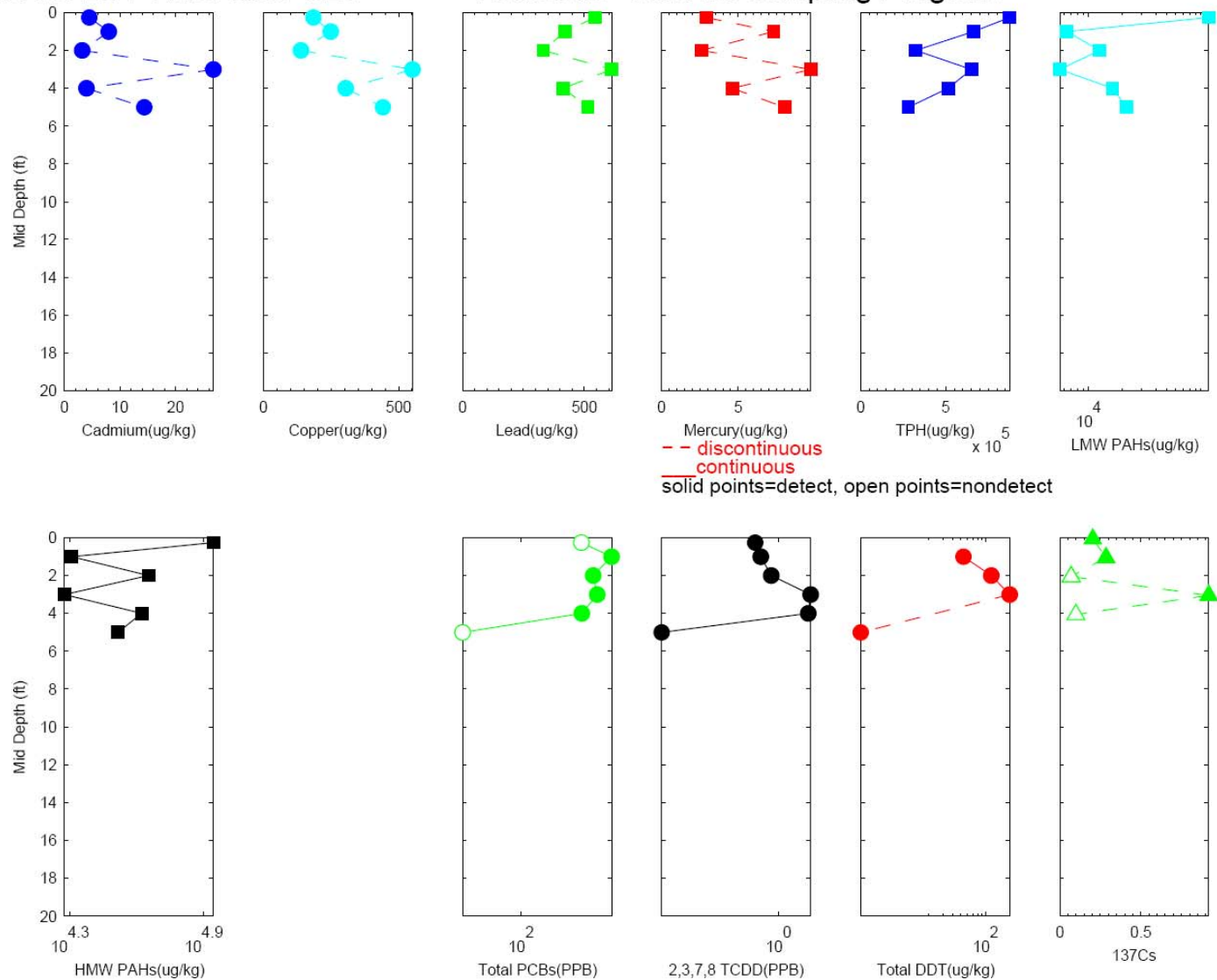
Lower Passaic River Restoration Project

Figure 11-15

September 2008

Sample ID: 244 River Mile 4.23

PASSAIC 1995 RI Sampling Program



Core Classified as Erosive (244)

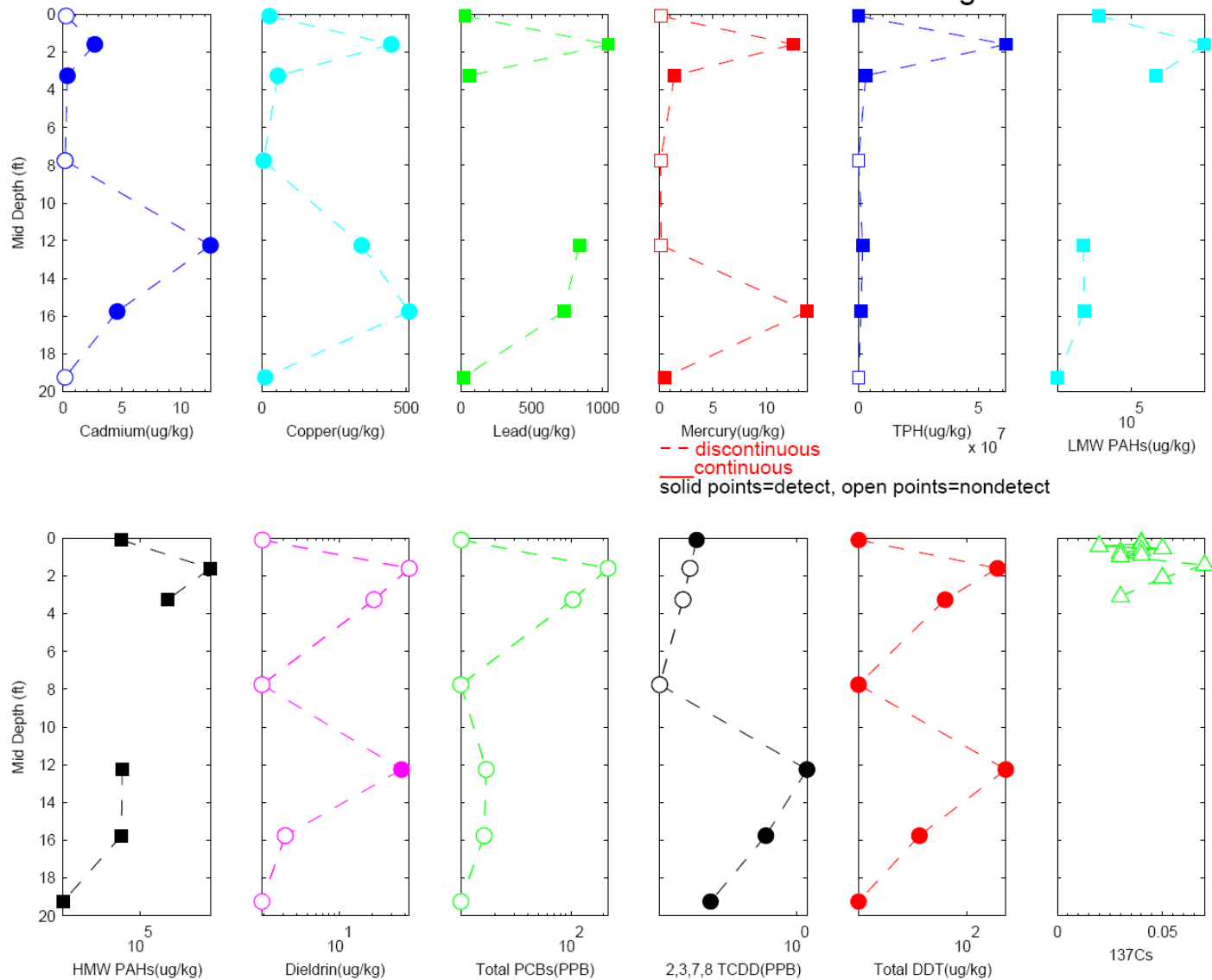
Lower Passaic River Restoration Project

Figure 11-16

September 2008

Sample ID: 20A River Mile 3.05

PASSAIC 1991 Core Sediment Investigation



Core Classified as Data Mess (20-A)

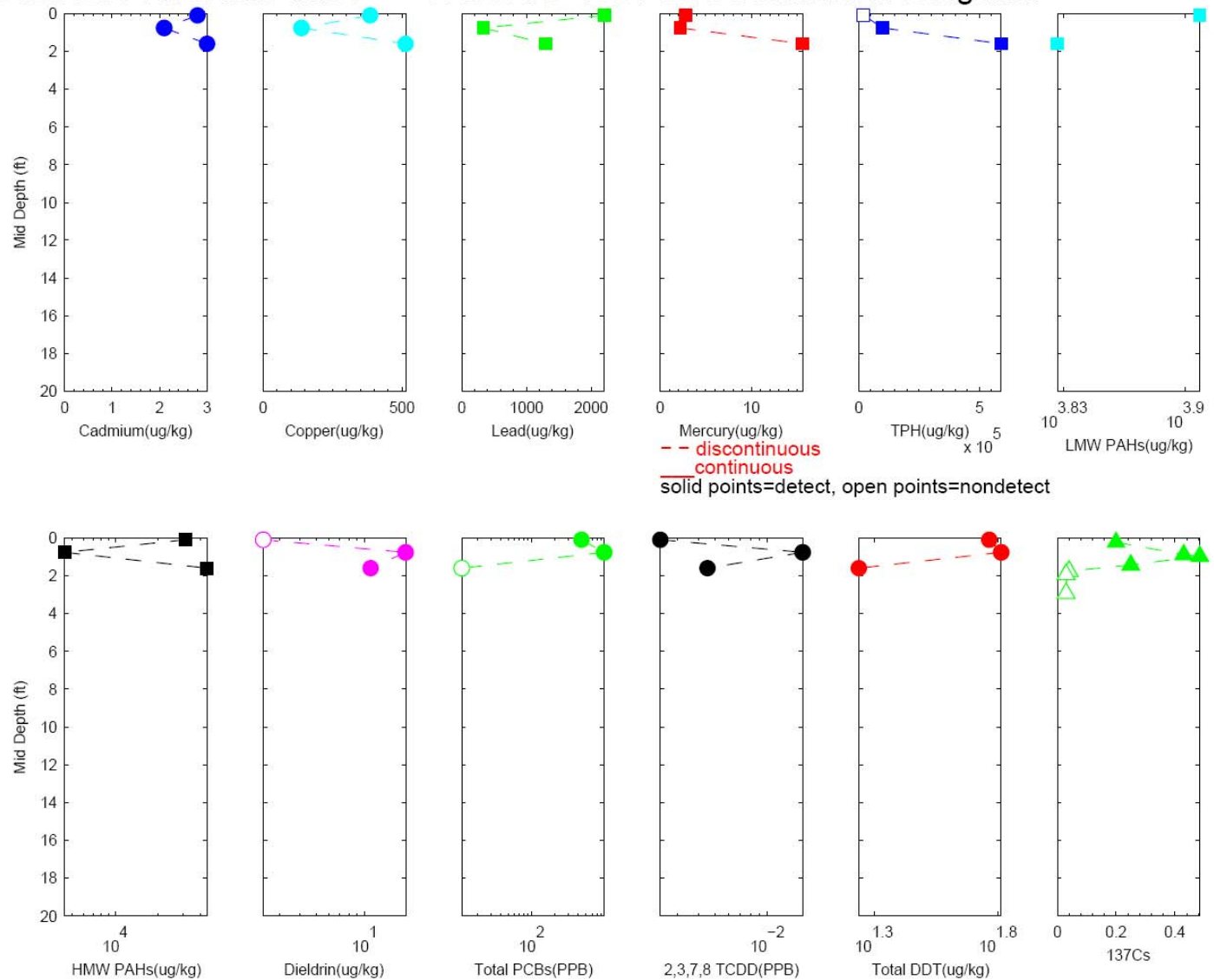
Lower Passaic River Restoration Project

Figure 11-17

September 2008

Sample ID: 02A River Mile 16.95

PASSAIC 1991 Core Sediment Investigation



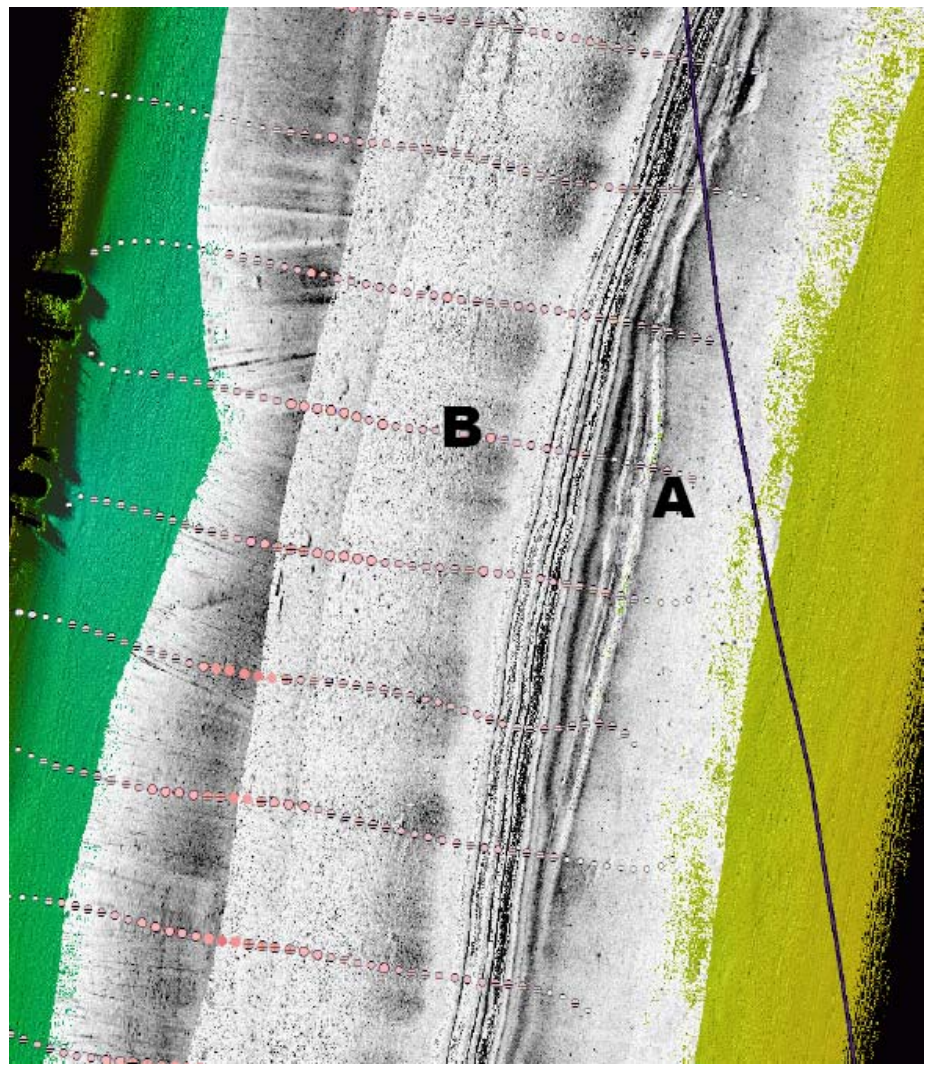
Core Classified as Lack Data (02A)

Lower Passaic River Restoration Project

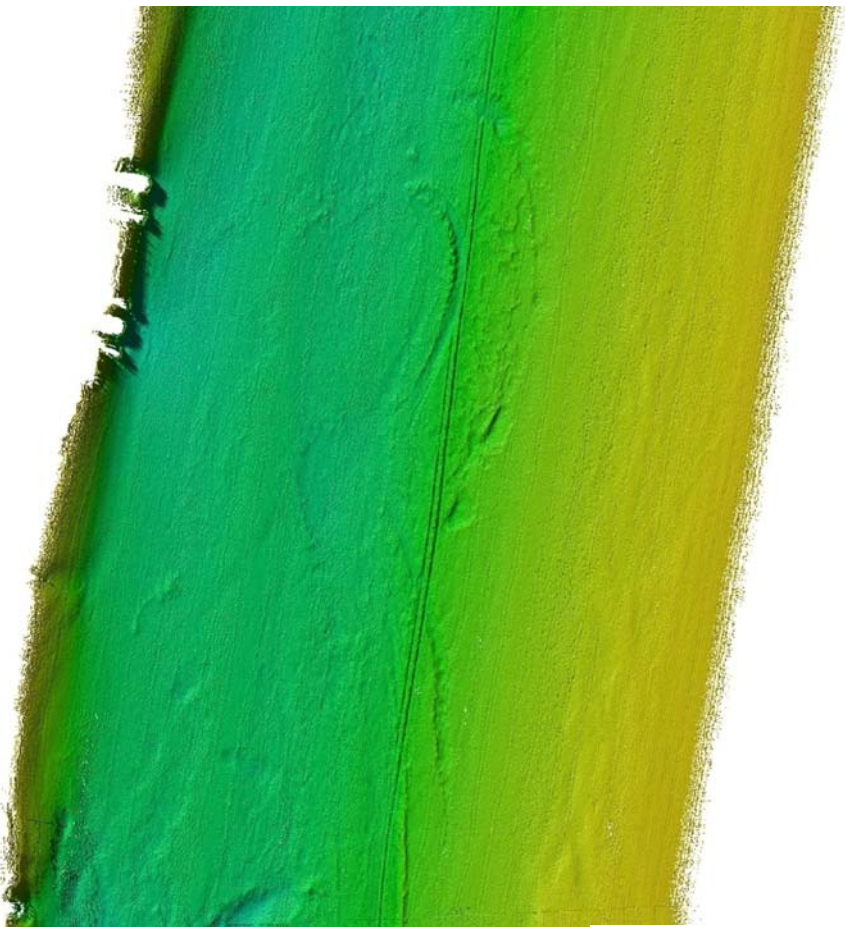
Figure 11-18

September 2008

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect



0 50 100
Feet



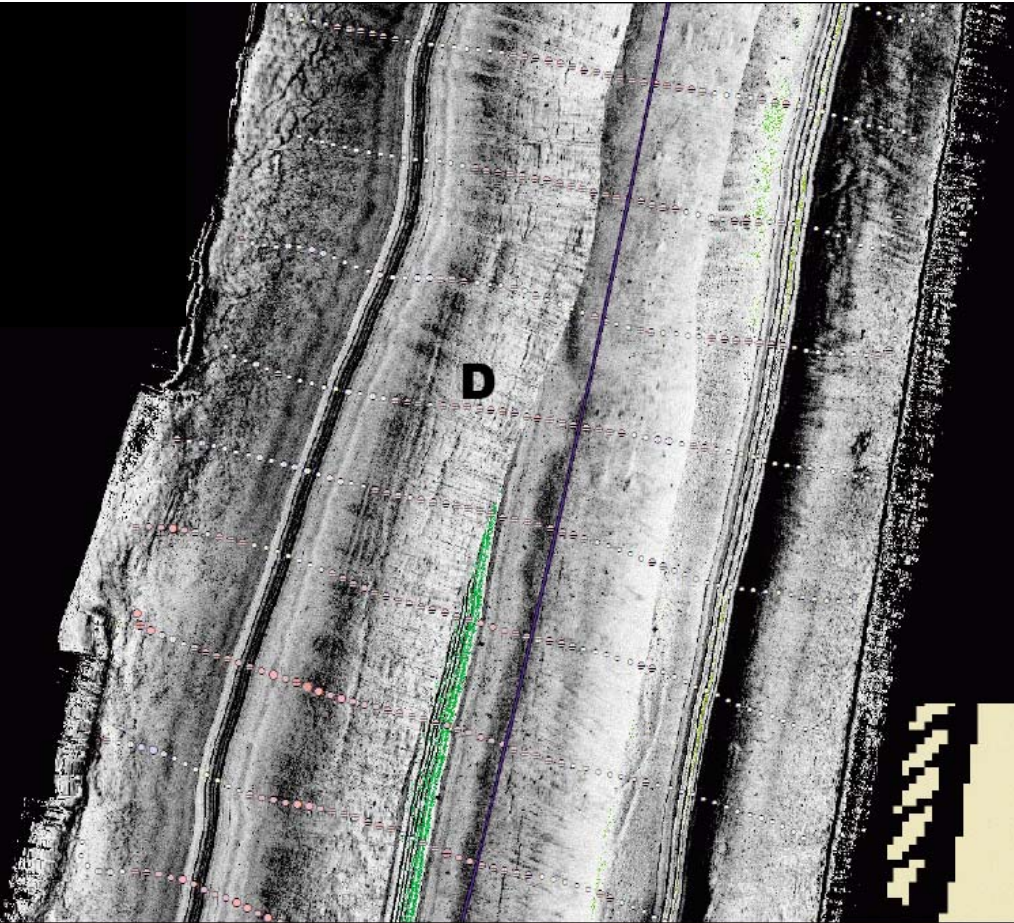
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM0.67

Lower Passaic River Restoration Project

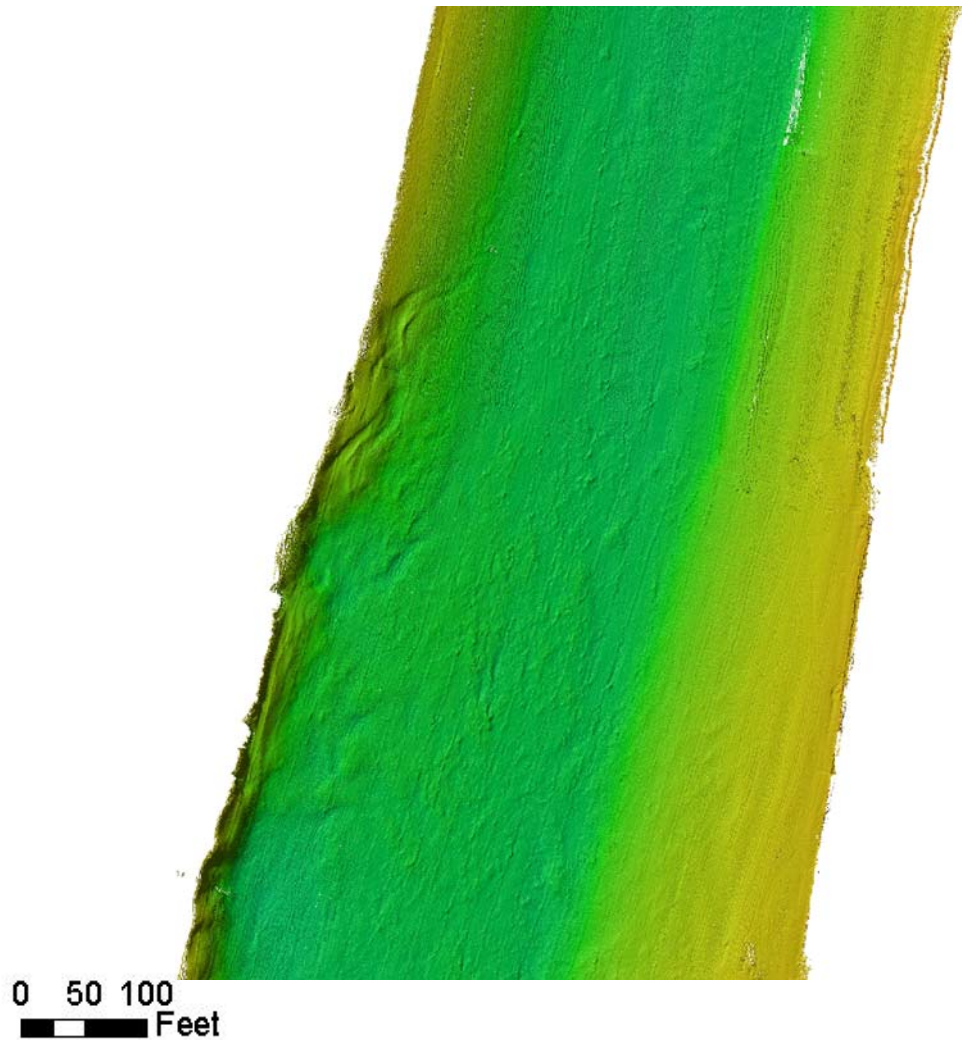
Figure 11-19

September 2008

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect



0 50 100
Feet



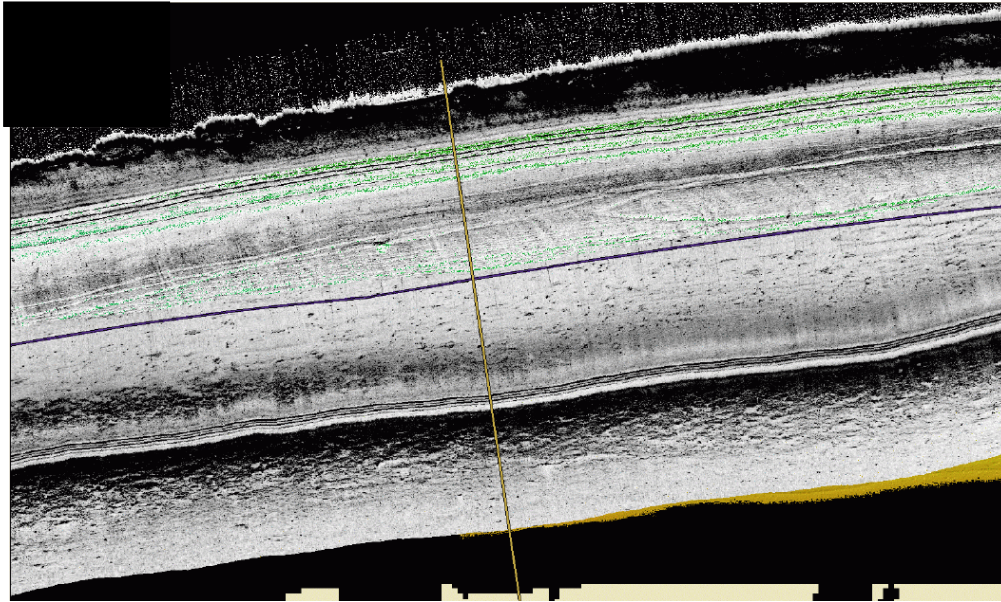
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM1.41

Lower Passaic River Restoration Project

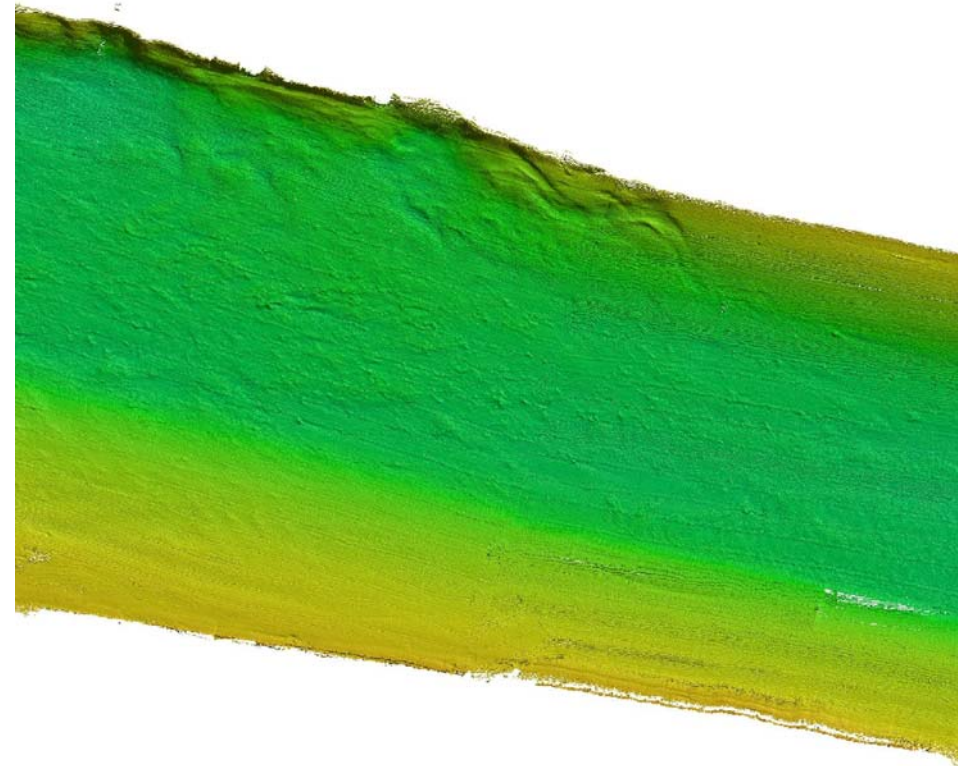
Figure 11-20

September 2008

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect



0 50 100
Feet



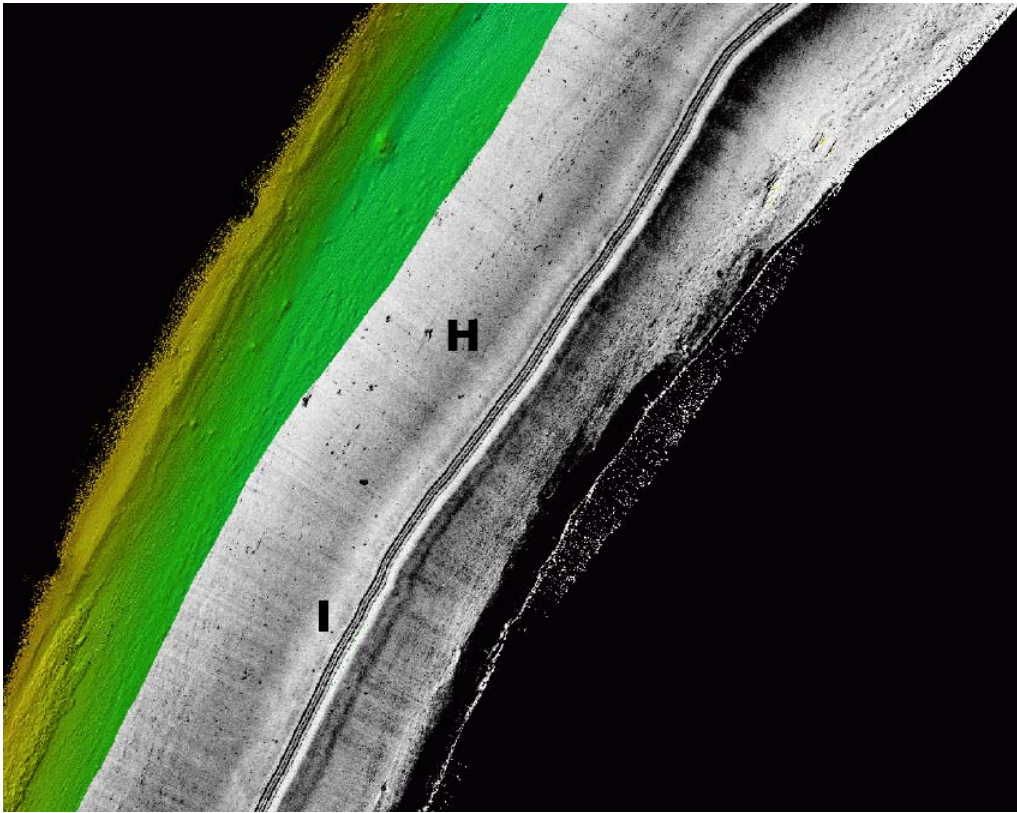
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM3

Lower Passaic River Restoration Project

Figure 11-21

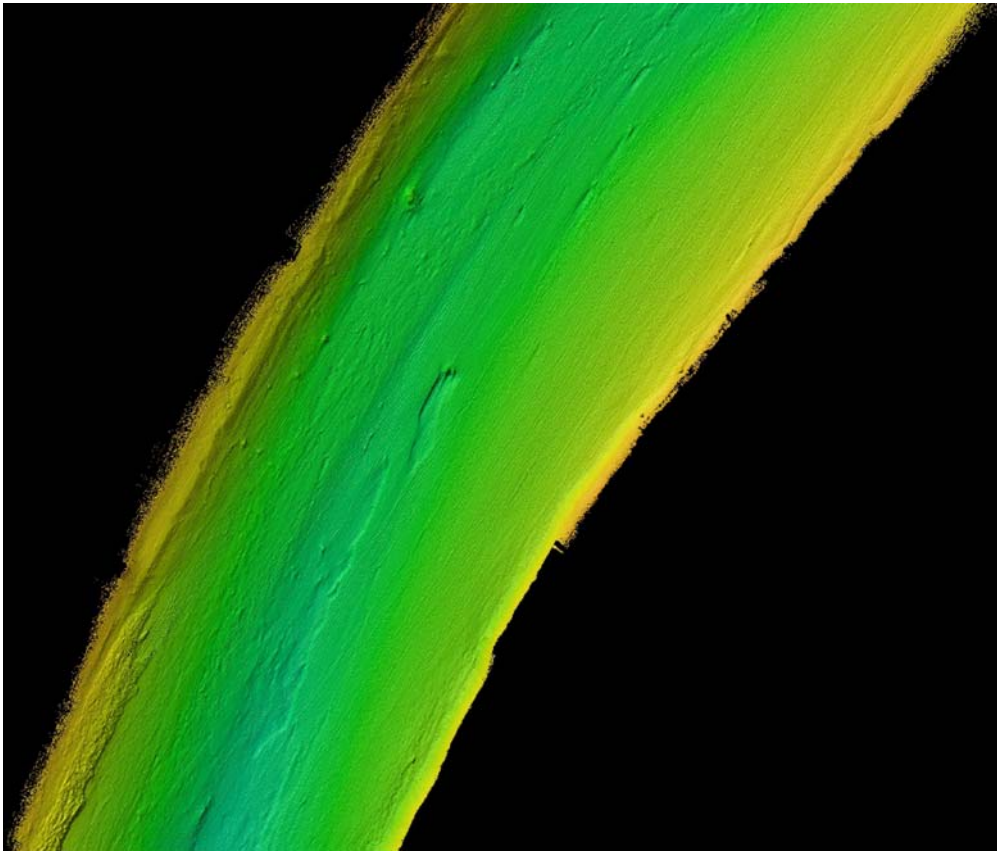
September 2008

2005 Side Scan SONAR



0 50 100
Feet

2007 Multi-Beam Bathymetry Aspect



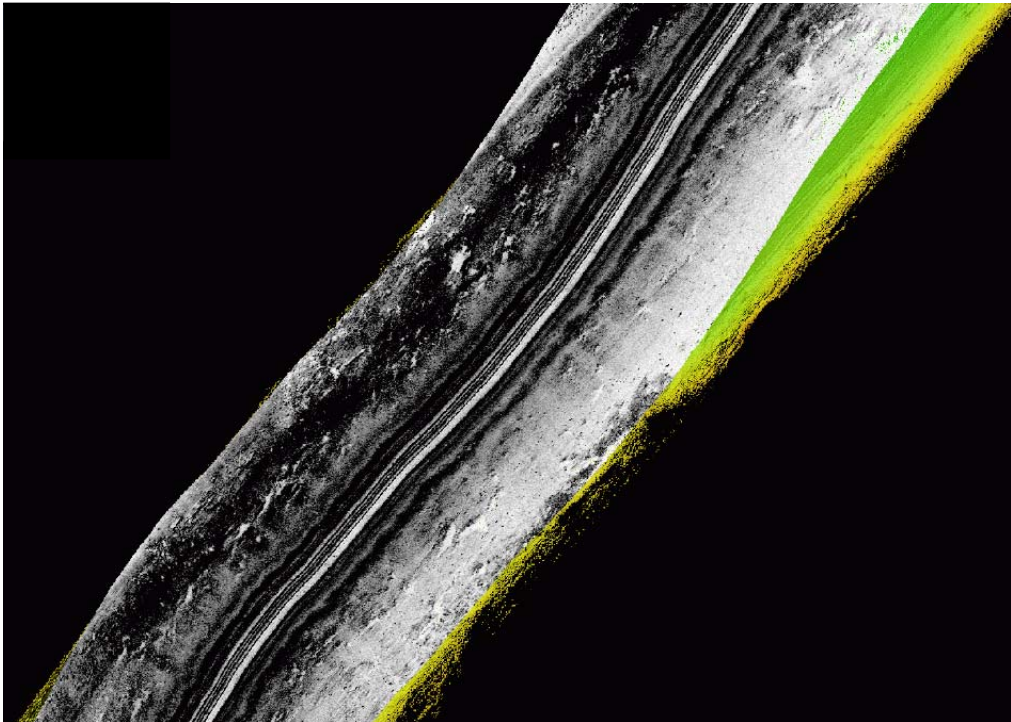
2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM3.58

Lower Passaic River Restoration Project

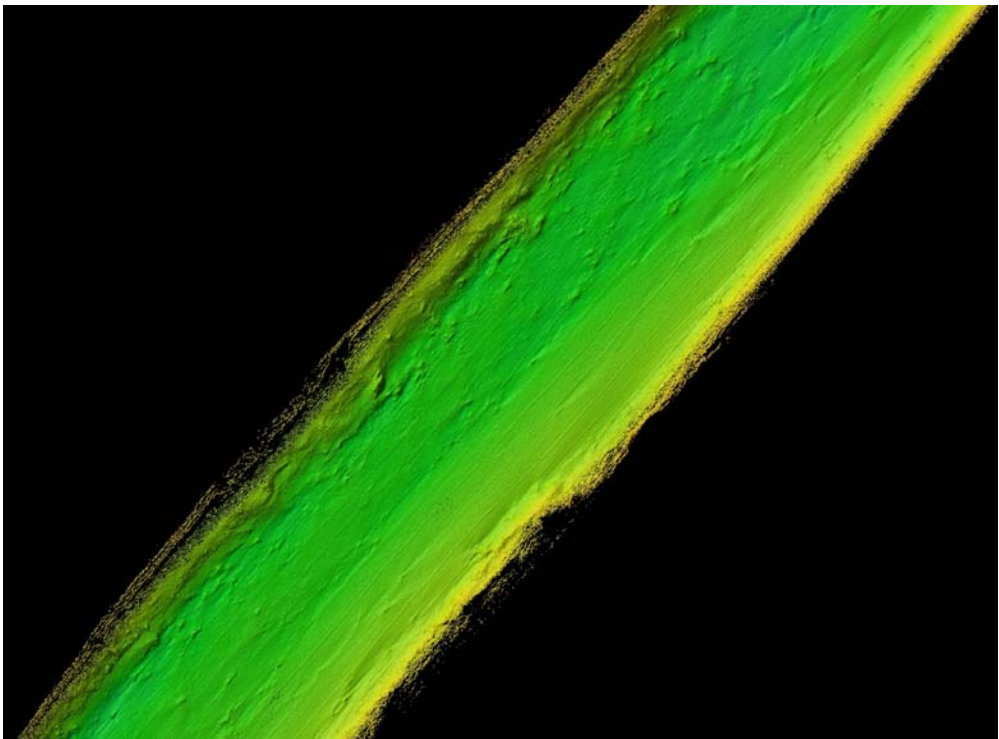
Figure 11-22

September 2008

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect



0 75 150
Feet

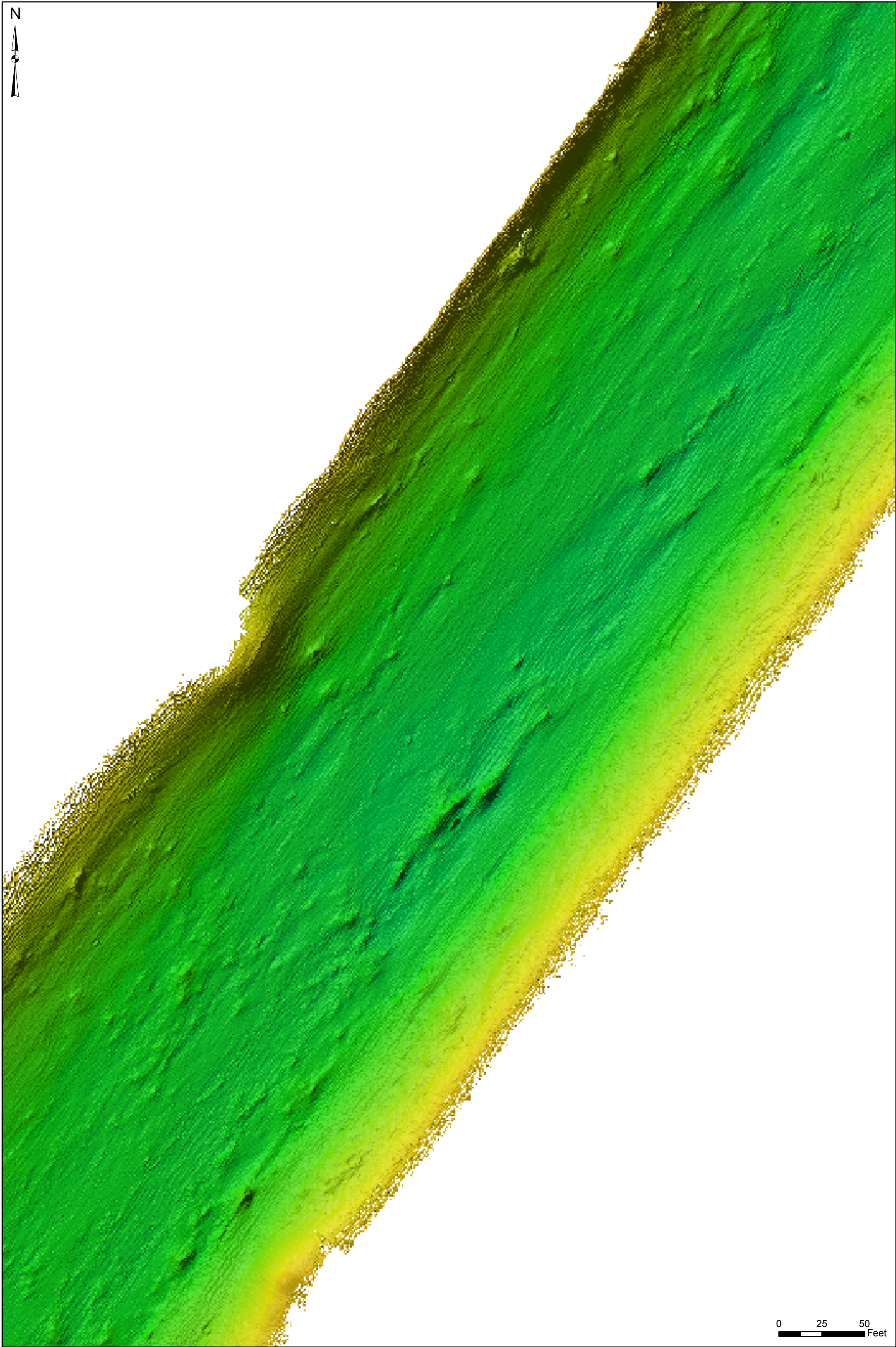


2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM7.53

Lower Passaic River Restoration Project

Figure 11-23

September 2008

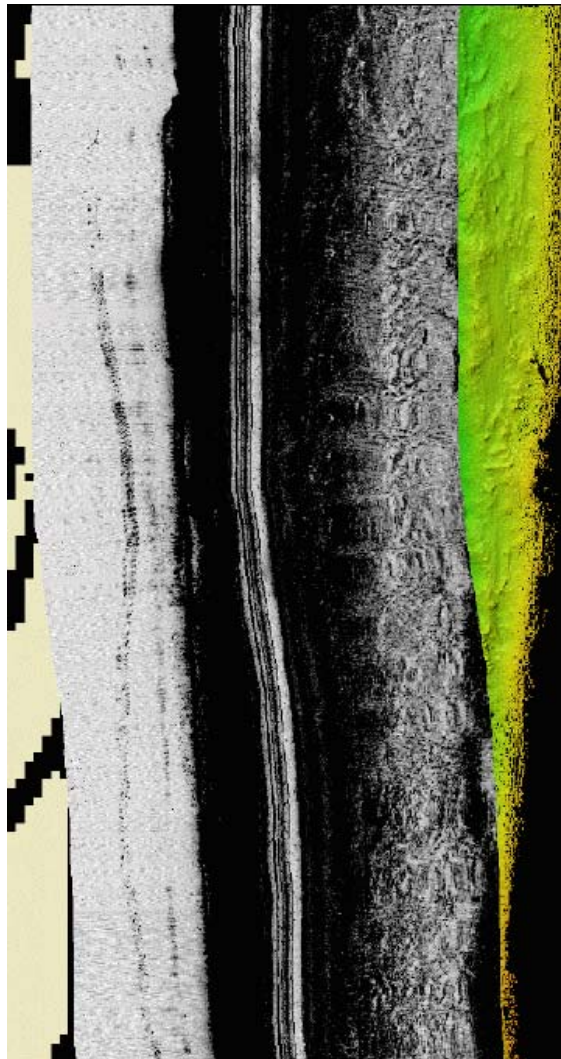


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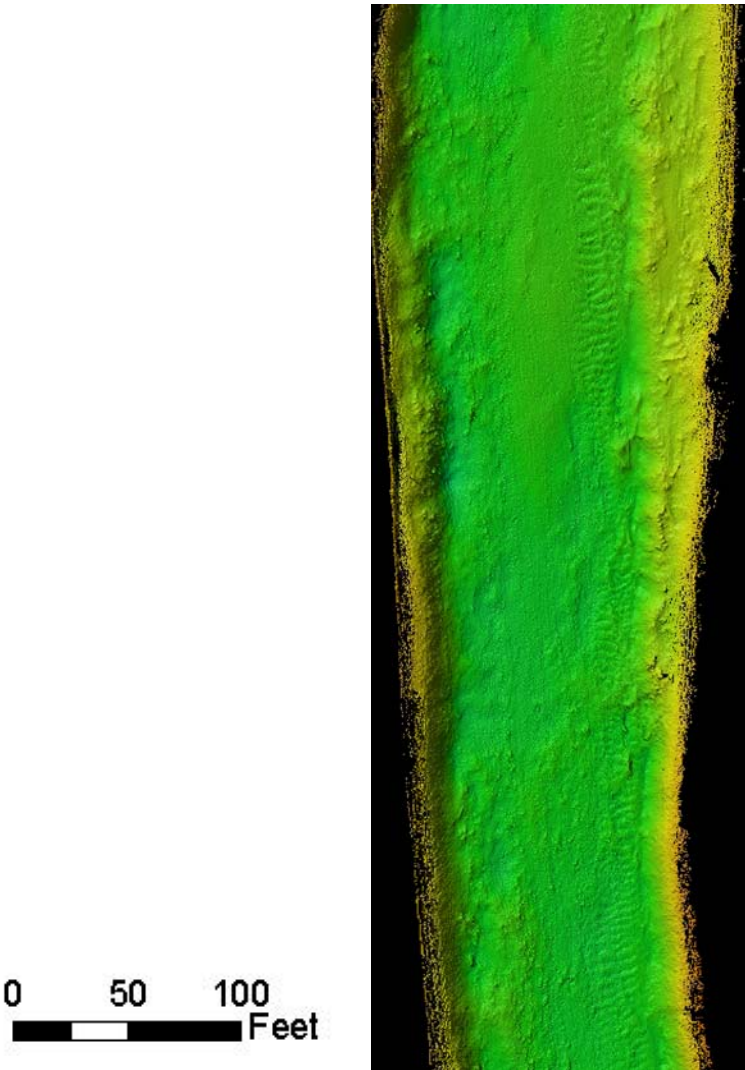


Aspect of the 2007 Multibeam Data at RM 8.9
Lower Passaic River Restoration Project

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect



0 50 100
Feet

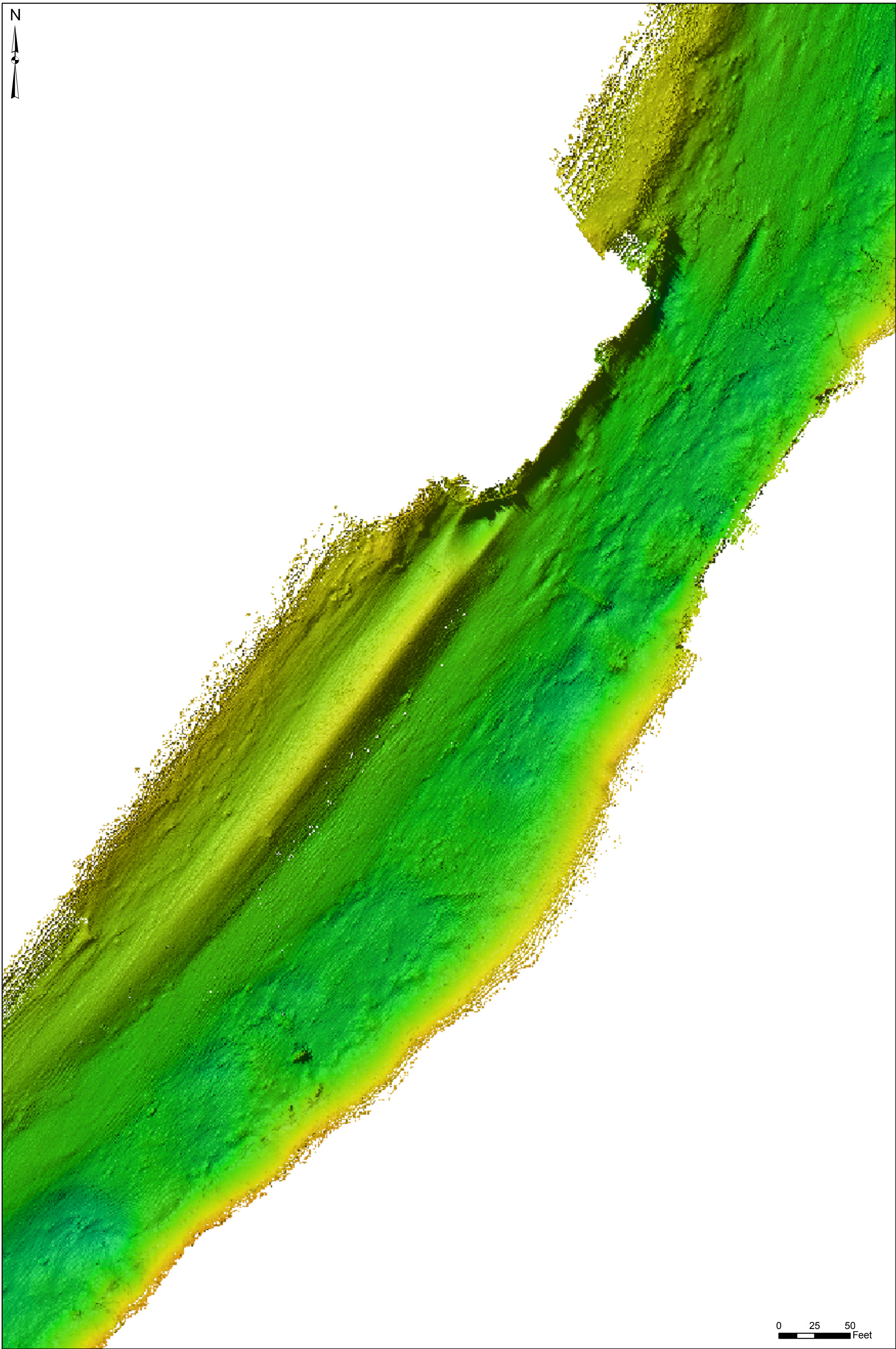


2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM8.29

Lower Passaic River Restoration Project

Figure 11-25

September 2008

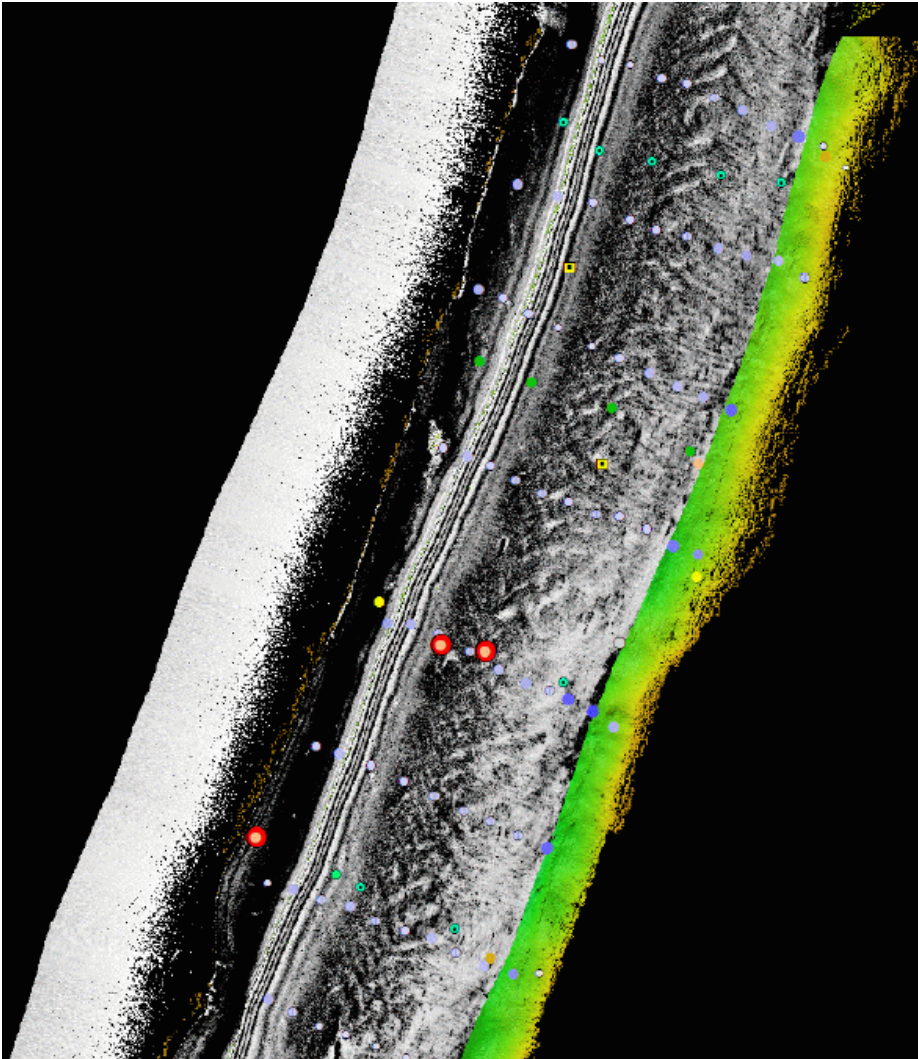


S:\Project\PASSAIC\MapDocuments\4553001.CERCLA\Ageed_2007MB_Bathymetry.mxd



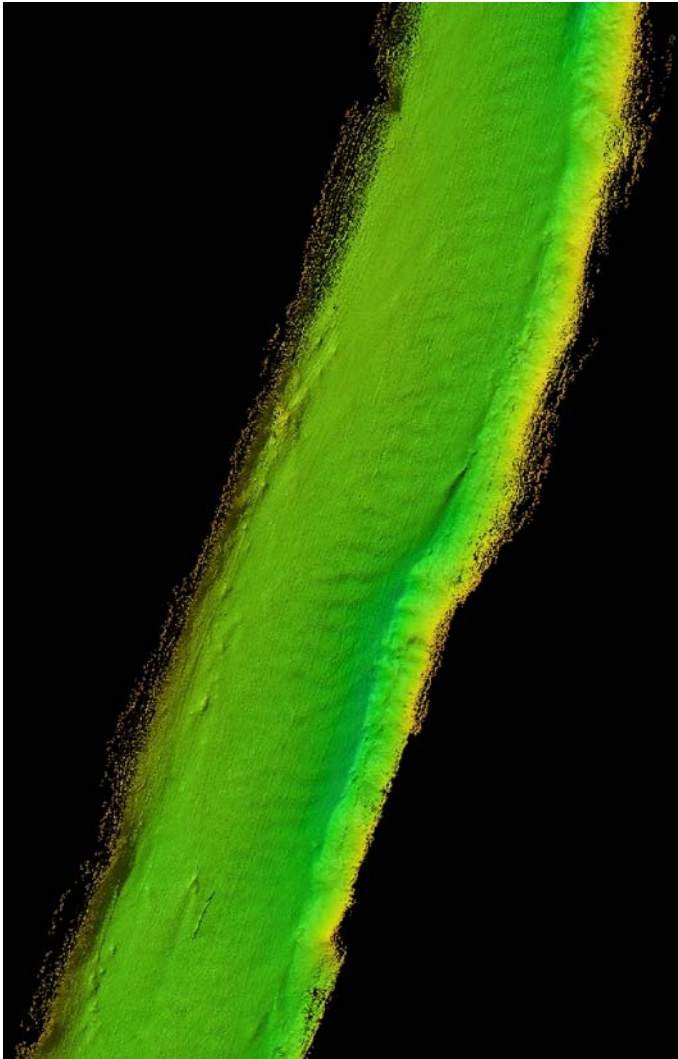
Aspect of the 2007 Multibeam Data at RM 11.6
Lower Passaic River Restoration Project

2005 Side Scan SONAR



2007 Multi-Beam Bathymetry Aspect

0 50 100 Feet



2005 Side Scan SONAR and Aspect of 2007 Multi-Beam Data at RM13.45

Lower Passaic River Restoration Project

Figure 11-27

September 2008